



Db 2280 TTGAGATCCAGAGTTCACAGCTCCACATCATGACAGACATCATGCTATGTTTTG 2339  
QY 301 ATAGTTGACAGTTGTCAGTTTGTTCATGAGAGTGCATACATGATTCATACATTCG 360  
Db 2340 ATAGTTGACAGTTGTCAGTTTGTTCATGAGAGTGCATACATGATTCATACATTCG 2399  
QY 361 GACACAGAGTGCATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 420  
Db 2400 GACACAGAGTGCATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2459  
QY 421 TCTATGAAGACACATCACCCTATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 480  
Db 2460 TCTATGAAGACACATCACCCTATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2519  
QY 481 AAAACCCAGTCTATGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 540  
Db 2520 AAAACCCAGTCTATGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2579  
QY 541 CCGCTTACAGAGTTTCTAGTTGTGACAGAGACATGCTGATTTATTCAGAGACATG 600  
Db 2580 CCGCTTACAGAGTTTCTAGTTGTGACAGAGACATGCTGATTTATTCAGAGACATG 2639  
QY 601 ATGAAGATATTCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 660  
Db 2640 ATGAAGATATTCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2699  
QY 661 CCCAGATCCAGAGTCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 720  
Db 2700 CCCAGATCCAGAGTCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2759  
QY 721 CAGATCAAGAGAAATGATATGATATCATATCATGTTGAAATGAAGAGAGATG 780  
Db 2760 CAGATCAAGAGAAATGATATGATATCATATCATGTTGAAATGAAGAGAGATG 2819  
QY 781 TTGACATTTATGATGAGATGAAATCAAGCCCCCGACGCTTCCTTCCTTCCTTCCTTCCTTC 840  
Db 2820 TTGACATTTATGATGAGATGAAATCAAGCCCCCGACGCTTCCTTCCTTCCTTCCTTCCTTC 2879  
QY 841 ACTATTTATGCTGAGTGCAGAGAGCTCTGGGATTTATGGATGAGATGCTCCCATG 900  
Db 2880 ACTATTTATGCTGAGTGCAGAGAGCTCTGGGATTTATGGATGAGATGCTCCCATG 2939  
QY 901 TTCTAAGAAACAGAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG 960  
Db 2940 TTCTAAGAAACAGAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG 2999  
QY 961 AATTACTGATGCTCTTCTTACTCAGCCCTTATACGCTGA 1001  
Db 3000 AATTACTGATGCTCTTCTTACTCAGCCCTTATACGCTGA 3040

## RESULT 2

US-09-364-862-14  
Sequence 14, Application US/09364862  
Patent No. 6221349  
GENERAL INFORMATION:  
APPLICANT: Coloto, Linda B.  
APPLICANT: Coloto, Peter C.  
TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII  
TITLE OF INVENTION: BY TARGET  
FILE REFERENCE: AVIGEN-03743  
CURRENT APPLICATION NUMBER: US/09/364, 862  
CURRENT FILING DATE: 1999-07-30  
EARLIER APPLICATION NUMBER: 60/125, 974  
EARLIER FILING DATE: 1999-03-24  
EARLIER APPLICATION NUMBER: 60/104, 994  
EARLIER FILING DATE: 1998-10-20  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 14  
LENGTH: 4999  
TYPE: DNA

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-364-862-14  
Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AATGATTCCTCGGCTGACCCGCTATTTACTAGTTTCTGTTAAATGAGAGACATC 60  
Db 2040 AATGATTCCTCGGCTGACCCGCTATTTACTAGTTTCTGTTAAATGAGAGACATC 2099  
QY 61 TAGCTTCAGAGCTCATTTGGCCCTCTCTCATCTGCTACAAAGAAATCTGTATCAAGAG 120  
Db 2100 TAGCTTCAGAGCTCATTTGGCCCTCTCTCATCTGCTACAAAGAAATCTGTATCAAGAG 2159  
QY 121 GAACAGATTAATGTGACAGAAAGAGAAATGTATCTGTTTCTGTATTTGATGAGAAC 180  
Db 2160 GAACAGATTAATGTGACAGAAAGAGAAATGTATCTGTTTCTGTATTTGATGAGAAC 2219  
QY 181 GAGCTGTACTCAGACAGAAATATACAGCTTTTCCCAATCCAGCTGAGTGCAGC 240  
Db 2220 GAGCTGTACTCAGACAGAAATATACAGCTTTTCCCAATCCAGCTGAGTGCAGC 2279  
QY 241 TTGAGATCCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 300  
Db 2280 TTGAGATCCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2339  
QY 301 ATAGTTGACAGTTTGTGATGTTGTCATGAGTGCATGCTGATTCATGATTCATGATTC 360  
Db 2340 ATAGTTGACAGTTTGTGATGTTGTCATGAGTGCATGCTGATTCATGATTCATGATTC 2399  
QY 361 GAGCAGAGAGTACT 420  
Db 2400 GAGCAGAGAGTACT 2459  
QY 421 TCTATGAAGACACACTCACCTATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 480  
Db 2460 TCTATGAAGACACACTCACCTATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2519  
QY 481 AAAACCCAGTCTATGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 540  
Db 2520 AAAACCCAGTCTATGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2579  
QY 541 CCGCTTACAGAGTTTCTTACTGTTGACAGAAACACTGCTGATTTATTCAGAGACATG 600  
Db 2580 CCGCTTACAGAGTTTCTTACTGTTGACAGAAACACTGCTGATTTATTCAGAGACATG 2639  
QY 601 ATGAAGATATTCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 660  
Db 2640 ATGAAGATATTCAGATTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2699  
QY 661 CCCAGATCCAGAGTCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 720  
Db 2700 CCCAGATCCAGAGTCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTCCTTC 2759  
QY 721 CAGATCAAGAGAAATGATATGATATCATATCATGTTGAAATGAAGAGAGATG 780  
Db 2760 CAGATCAAGAGAAATGATATGATATCATATCATGTTGAAATGAAGAGAGATG 2819  
QY 781 TTGACATTTATGATGAGATGAAATCAAGCCCCCGACGCTTCCTTCCTTCCTTCCTTCCTTC 840  
Db 2820 TTGACATTTATGATGAGATGAAATCAAGCCCCCGACGCTTCCTTCCTTCCTTCCTTCCTTC 2879  
QY 841 ACTATTTATGCTGAGTGCAGAGAGCTCTGGGATTTATGGATGAGATGCTCCCATG 900  
Db 2880 ACTATTTATGCTGAGTGCAGAGAGCTCTGGGATTTATGGATGAGATGCTCCCATG 2939  
QY 901 TTCTAAGAAACAGAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG 960  
Db 2940 TTCTAAGAAACAGAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG 2999



STREET: 176 Federal Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/717,294  
 FILING DATE: 20-SEP-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Elbing, Karen L.  
 REGISTRATION NUMBER: 35,238  
 REFERENCE/DOCKET NUMBER: 00786/345001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617-428-0200  
 TELEFAX: 617-428-7045  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 41:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 4670 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 US-08-717-294-41

Query Match 94.6%; Score 947.4; DB 3; Length 4670;  
 Best Local Similarity 95.9%; Pred. No. 1.4e-300;  
 Matches 1000; Conservative 0; Mismatches 1; Indels 42; Gaps 1;

QY 1 AATCAGATCCTCGGTCCTGACCGCCGCTATTCTAGTTGCTTAATGAGAGAGATC 60  
 DB 1651 AATCAGATCCTCGGTCCTGACCGCCGCTATTCTAGTTGCTTAATGAGAGAGATC 1710  
 QY 61 TACCTTCAGAGCATTTGGCCCTCTCTCTATCTGCTACAAAGATGTGATCAAGAG 120  
 DB 1711 TACCTTCAGAGCATTTGGCCCTCTCTCTATCTGCTACAAAGATGTGATCAAGAG 1770  
 QY 121 GAACACAGATTAATGTCAGACAAGAGAGATGATCCTGTTTCTGATTTGATGAAGAC 180  
 DB 1771 GAACACAGATTAATGTCAGACAAGAGAGATGATCCTGTTTCTGATTTGATGAAGAC 1830  
 QY 181 GAAGCTGTACTCTACAGAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGTGCAC 240  
 DB 1831 GAAGCTGTACTCTACAGAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGTGCAC 1890  
 QY 241 TTGAGATCCAGAGTTCCAAAGCTCCACATATGACAGCATCAATGAGCTATGTTTTG 300  
 DB 1891 TTGAGATCCAGAGTTCCAAAGCTCCACATATGACAGCATCAATGAGCTATGTTTTG 1950  
 QY 301 ATAGTTGAGTTGTCAGAGTTGTTGTCAGAGTGGATGATGATGATGATGATGATGATG 360  
 DB 1951 ATAGTTGAGTTGTCAGAGTTGTTGTCAGAGTGGATGATGATGATGATGATGATGATG 2010  
 QY 361 GAGCAGAGTGCATCTTTCTGCTCTCTCTCTGATATACCTTCAAAACAAAGATG 420  
 DB 2011 GAGCAGAGTGCATCTTTCTGCTCTCTCTCTGATATACCTTCAAAACAAAGATG 2070  
 QY 421 TCTATGAAGACACTCACCCTATTCCTCCTCAGAGAAAGCTGCTTCATGATGATG 480  
 DB 2071 TCTATGAAGACACTCACCCTATTCCTCCTCAGAGAAAGCTGCTTCATGATGATG 2130  
 QY 481 AAAACCCAGGTATGATTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGG 540  
 DB 2131 AAAACCCAGGTATGATTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGG 2190

QY 541 CCGCTTACTGAAGGTTTCTAGTTGTGACAAGAACTGTGATTAATACGAGACAGTT 600  
 DB 2191 CCGCTTACTGAAGGTTTCTAGTTGTGACAAGAACTGTGATTAATACGAGACAGTT 2250  
 QY 601 ATGAAGATATTTTCAGCATACTTGTGAGTAAACCAATGCCATTGAACCAAGAACTTCT 660  
 DB 2251 ATGAAGATATTTTCAGCATACTTGTGAGTAAACCAATGCCATTGAACCAAGAACTTCT 2310  
 QY 661 CCCAGAAAT-----CCACCACTCT 678  
 DB 2311 CCCAGAAATCCAGACACCCCTAGCAGTAAAGCAATTAATCCACCCACCTAGTCT 2370  
 QY 679 TGAAGCCCATCAACGCGAAATTAATCTGCTACTCTTCACTCAGATCAAGAGAAATTTG 738  
 DB 2371 TGAAGCCCATCAACGCGAAATTAATCTGCTACTCTTCACTCAGATCAAGAGAAATTTG 2430  
 QY 739 ACTATGATGATACCATATCATGAGTTGAATGAAGAGAAATTTGACATTTATGATGAGG 798  
 DB 2431 ACTATGATGATACCATATCATGAGTTGAATGAAGAGAAATTTGACATTTATGATGAGG 2490  
 QY 799 ATGAAGATCAGAGCCCGGAGCTTTCAAAAGAAACGACACTATTTATTTCTGTCAG 858  
 DB 2491 ATGAAGATCAGAGCCCGGAGCTTTCAAAAGAAACGACACTATTTATTTCTGTCAG 2550  
 QY 859 TGGAGAGGCTCTGGGATTTATGAGATGAGTACCTCCACATGTTCTAAGAAACAGGCTC 918  
 DB 2551 TGGAGAGGCTCTGGGATTTATGAGATGAGTACCTCCACATGTTCTAAGAAACAGGCTC 2610  
 QY 919 AGAGTGGCAGTGTCCTCCTGATTCAGAAAGTTGTTTCCAGGAATTTACTGATGCTCT 978  
 DB 2611 AGAGTGGCAGTGTCCTCCTGATTCAGAAAGTTGTTTCCAGGAATTTACTGATGCTCT 2670  
 QY 979 TTACTCAGCCCTTATACCGTGA 1001  
 DB 2671 TTACTCAGCCCTTATACCGTGA 2693

RESULT 5  
 US-08-683-839B-2  
 ; Sequence 2, Application US/08683839B  
 ; Patent No. 574326  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ILL, Charles . R. et al.  
 ; TITLE OF INVENTION: Use of Viral Cis-Acting Post-Transcriptional  
 ; TITLE OF INVENTION: Regulatory Sequences to Increase Expression of  
 ; TITLE OF INVENTION: Intronsless Genes Containing Near-Consensus Splice Sites  
 ; NUMBER OF SEQUENCES: 18  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 State Street, suite 510  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/683,839B  
 ; FILING DATE: 11-MARCH-1996  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Remillard, Jane E.  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: TTI-138  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400





QY	361	GAGCAGAGACTACTCTCTTCTGCTCTTCTGCTGAAATACCTTCAACACAAATGG	420
Db	2411	GGAGCAGAGCTACTCTTCTTCTGCTCTTCTGCTGAAATACCTTCAACACAAATGG	2470
QY	421	TCTATGAGACACACTACCTTATTTCCATTTCTCGAGAAACTGTCTTCATGTGCATGG	480
Db	2471	TCTATGAGAACACACTACCTTATTTCCATTTCTCGAGAAACTGTCTTCATGTGCATGG	2530
QY	481	AAACCCAGCTGTATGAGATTTGGGGGTGCACAACTCAGACTTTTGGAAACGAGGCATGA	540
Db	2531	AAACCCAGGCTGTATGAGATTTGGGGGTGCACAACTCAGACTTTTGGAAACGAGGCATGA	2590
QY	541	CCGCCCTTACTGAAGTTTCTTACTGTGTGACAAAGAACACTGTGATTTATTCAGAGACATT	600
Db	2591	CCGCCCTTACTGAAGTTTCTTACTGTGTGACAAAGAACACTGTGATTTATTCAGAGACATT	2650
QY	601	ATGAAGATATTTTCACGATTACTTGCTGAGTAAAAACATGCCATTGACCAAGAACTTCT	660
Db	2651	ATGAAGATATTTTCACGATTACTTGCTGAGTAAAAACATGCCATTGACCAAGAACTTCT	2708
QY	661	CCGAGATCCACAGCTTGTGAAACCCCATCAACGGGAATTAACGTGACTCTGTCAST	720
Db	2709	-----CGAATTACTGTGTACTTCTTCACT	2734
QY	721	CAGATCAAGAGAAATGACTATGATGATACCATATCAGTTGAAATGAAGAGAAATT	780
Db	2735	CAGATCAAGAGAAATGACTATGATGATACCATATCAGTTGAAATGAAGAGAAATT	2794
QY	781	TTGACATTTATGATGAGATGAAATTCAGACCCCCGAGCTTTCAAAAGAAACACGAC	840
Db	2795	TTGACATTTATGATGAGATGAAATTCAGACCCCCGAGCTTTCAAAAGAAACACGAC	2854
QY	841	ACTATTTTATTTGCTCAGTGGAGAGGCTGCTGGGATTTATGAGATGATAGTCCCCACATG	900
Db	2855	ACTATTTTATTTGCTCAGTGGAGAGGCTGCTGGGATTTATGAGATGATAGTCCCCACATG	2914
QY	901	TTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG	960
Db	2915	TTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTCCAG	2974
QY	961	AATTTACTGATGGCTCTCTTACTCAGCCCTTATACCGTGA 1001	
Db	2975	AATTTACTGATGGCTCTCTTACTCAGCCCTTATACCGTGA 3015	
RESULT 7			
US-09-364-862-13			
Sequence 13, Application US/09364862			
Patent No. 6221349			
GENERAL INFORMATION:			
APPLICANT: Coulo, Linda B.			
APPLICANT: Colosi, Peter C.			
TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII			
TITLE OF INVENTION: BY TARGET			
FILE REFERENCE: AVIGEN-03743			
CURRENT APPLICATION NUMBER: US/09/364,862			
CURRENT FILING DATE: 1999-07-30			
EARLIER APPLICATION NUMBER: 60/125,974			
EARLIER FILING DATE: 1999-03-24			
EARLIER APPLICATION NUMBER: 60/104,994			
EARLIER FILING DATE: 1998-10-20			
NUMBER OF SEQ ID NOS: 14			
SOFTWARE: PatentIn Ver. 2.0			
SEQ ID NO 13			
LENGTH: 11933			
TYPE: DNA			
ORGANISM: Artificial Sequence			
FEATURE:			
OTHER INFORMATION: Description of Artificial Sequence: synthetic			
US-09-364-862-13			

Best Local Similarity 96.4%; Pred. No. 5.2e-291;  
Matches 965; Conservative 0; Mismatches 0; Indels 36; Gaps 1

Matches	965;	Conservative	0;	Mismatches	0;	Indels	36;	Gaps	1;
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1

QY	1	AATTCAGATCCTGGGCGCTGACCGCCGATTAACCTAGTTGGTTTCGTTATATGAGACAGATC	60
Db	2051	AATTCAGATCCTGGGCGCTGACCGCCGATTAACCTAGTTGGTTTCGTTATATGAGACAGATC	2110
QY	61	TAGCTTCAGGACTAATGCGCCCTCTCCATCTGCTACAAAGAAATCTAGATCAAAAG	120
Db	2111	TAGCTTCAGGACTAATGCGCCCTCTCCATCTGCTACAAAGAAATCTAGATCAAAAG	2170
QY	121	GAAACCAATATATGTCAGACAAAGGAATGTCATCCTGTTTCTGTATTTGATGAGAAC	180
Db	2171	GAAACCAATATATGTCAGACAAAGGAATGTCATCCTGTTTCTGTATTTGATGAGAAC	2230
QY	181	GAGCTGGTACCTCAGAGAAATATCAAGCTTTTCCCAATCCAGCTGGAGAGCAGC	240
Db	2231	GAGCTGGTACCTCAGAGAAATATCAAGCTTTTCCCAATCCAGCTGGAGAGCAGC	2290
QY	241	TTGAGGATCCAGAGTTCCAAAGCCTCCAAATCATGCAAGCATCAATGCGATATGTTT	300
Db	2291	TTGAGGATCCAGAGTTCCAAAGCCTCCAAATCATGCAAGCATCAATGCGATATGTTT	2350
QY	301	ATAGTTTCAGTTGTCAGTTGTTTGGATGATGAGGTGGCATACGTGATATTTCAACCAT	360
Db	2351	ATAGTTTCAGTTGTCAGTTGTTTGGATGATGAGGTGGCATACGTGATATTTCAACCAT	2410
QY	361	GAGCACAAGTACGATTCCTCTCTGTCCTGTCCTGATATACCTTCAACACCAAAATG	420
Db	2411	GAGCACAAGTACGATTCCTCTCTGTCCTGTCCTGATATACCTTCAACACCAAAATG	2470
QY	421	TCTATGAAGACACACACCTATTCCTCATTTCCAGAGAAACTGTCTTATGTCGATG	480
Db	2471	TCTATGAAGACACACACCTATTCCTCATTTCCAGAGAAACTGTCTTATGTCGATG	2530
QY	481	AAAACCCAGGTCCTATGGATTCCTGGGGGCGCACAACTCAGACTTTGGGAAACAGGCAT	540
Db	2531	AAAACCCAGGTCCTATGGATTCCTGGGGGCGCACAACTCAGACTTTGGGAAACAGGCAT	2590
QY	541	CCGCGTTACTGAAGTTTCTAGTTGTGACAAAGACACTGGTATTTATACGAGGACAGT	600
Db	2591	CCGCGTTACTGAAGTTTCTAGTTGTGACAAAGACACTGGTATTTATACGAGGACAGT	2650
QY	601	ATGAAGATATTTACGACTACTTCTGTAGTAAACAATGCCATTTGACCAAGAGCTTCT	660
Db	2651	ATGAAGATATTTACGACTACTTCTGTAGTAAACAATGCCATTTGACCAAGAGCTTCT	2708
QY	661	CCCGAATCCACAGTCTTGAAAGCGCATCAAGCGCAAAATTAAGTCTGATCTTCTCAGT	720
Db	2709	CCCGAATCCACAGTCTTGAAAGCGCATCAAGCGCAAAATTAAGTCTGATCTTCTCAGT	2734
QY	721	CAGATCAAGAGAAATTTGACTATGATGATACCATATCAGTTGAAATGAAAGGAAGATT	780
Db	2735	CAGATCAAGAGAAATTTGACTATGATGATACCATATCAGTTGAAATGAAAGGAAGATT	2794
QY	781	TTGACATTTAATGATGAGAGATGAAATACAGACCCCGCAGCTTTCAAAAAGAAACACGAC	840
Db	2795	TTGACATTTAATGATGAGAGATGAAATACAGACCCCGCAGCTTTCAAAAAGAAACACGAC	2854
QY	841	ACTATTTTATTCGTCAGTGGAGAGGCTCGGGATTATGATGATGATAGTACGCTCCACATG	900
Db	2855	ACTATTTTATTCGTCAGTGGAGAGGCTCGGGATTATGATGATGATAGTACGCTCCACATG	2914
QY	901	TTTCTAAGAAACAGGGCTCAGAGTGGCAGATGTCCCTCAGTTCAAGAAAGTTGTTTCCAGG	960
Db	2915	TTTCTAAGAAACAGGGCTCAGAGTGGCAGATGTCCCTCAGTTCAAGAAAGTTGTTTCCAGG	2974
QY	961	AATTTACGATGGCTCCTTACTACACCCCTTATACCGTGA 1001	
Db	2975	AATTTACGATGGCTCCTTACTACACCCCTTATACCGTGA 3015	

Query Match 91.8%; Score 919; DB 4; Length 11933;

## RESULT 8







||||| 2227 ATGAGATATTCAGGCTTCTGCTAGTGAAGATGATTCATGACCAG----- 2279  
QY 661 CCAGATCCAGGCTTGAAGCCATCAGCCGAATTAATCTACTCTTCACT 720  
Db 2280 -----GACATACCTTCTCTACTTTCCAGC 2304  
QY 721 CAGATCAAGAGAAATGATATGATATCATATCATCTGTAATGAAGAGAGATT 780  
Db 2305 CGAGAGAGACAAAATGATATGATATCTTCTCACTGAAGAGAGAGAGATT 2364  
QY 781 TTGACATTTATGATGAGATGAAGAAATCAGAGCCCTTCAGAGAAACAGCAG 840  
Db 2365 TTGACATTTATGATGAGATGAAGAAATCAGAGCCCTTCAGAGAAACAGCAG 2424  
QY 841 ACTATTTATTTGCTGAGTGAAGAGCTGCGATTATGAGATGATAGTCCACATG 900  
Db 2425 ACTATTTATTTGCTGAGTGAAGAGCTGCGATTATGAGATGATAGTCCACATG 2484  
QY 901 TTCTAAGAAACAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTGTTCACAG 960  
Db 2485 CGCTAAGAAACAGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTGTTCACAG 2544  
QY 961 AATTGCTGAGGCTCTTCTACTCAGCCCTTATACCTGG 1000  
Db 2545 AATTGCTGAGGCTCTTCTACTCAGCCCTTATACCTGG 2584

## RESULT 12

US-08-276-594A-1

; Sequence 1, Application US/08276594A  
; Patent No. 5693499

## GENERAL INFORMATION:

APPLICANT: YONEMURA, Hiroshi  
APPLICANT: TAJIMA, Yoshitaka  
APPLICANT: SUGAMARA, Keishin  
APPLICANT: MASUDA, Kenichi  
TITLE OF INVENTION: PROCESS FOR PREPARING HUMAN COAGULATION  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington

STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:

## MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/276,594A  
FILING DATE: 18-JUL-1994  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/950,191  
FILING DATE: 24-SEP-1992  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 243262/1991  
FILING DATE: 24-SEP-1991

## ATTORNEY/AGENT INFORMATION:

NAME: WEGNER, Harold C.  
REGISTRATION NUMBER: 25,258  
REFERENCE/DOCKET NUMBER: 74129/195/AOPA  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136

INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:

LENGTH: 6999 base pairs

TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..6996  
US-08-276-594A-1

Query Match 67.0%; Score 671; DB 1; Length 6999;  
Best Local Similarity 94.6%; Pred. No. 1e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 AATCAGATCTCTGGTGCCTGAGCCGCTATCTAGTTGTTGTTAAATGAGAGATC 60  
Db 1568 AATCAGATCTCTGGTGCCTGAGCCGCTATCTAGTTGTTGTTAAATGAGAGATC 1627  
QY 61 TAGCTTCAGGACTCTTTGGCCCTCTCTCATCTGCTACAAAGAAATCTGTAGATCAAAGAG 120  
Db 1628 TAGCTTCAGGACTCTTTGGCCCTCTCTCATCTGCTACAAAGAAATCTGTAGATCAAAGAG 1687  
QY 121 GAACCATGATATGTCAGACAAGAGAAATGTCATCTGTTTCTGTATTTGATGAGAAC 180  
Db 1688 GAACCATGATATGTCAGACAAGAGAAATGTCATCTGTTTCTGTATTTGATGAGAAC 1747  
QY 181 GAAGCTGTACTCTCAGAGAAATATACAGCCTTTCTCCCAATCCAGCTGAGTGCAGC 240  
Db 1748 GAAGCTGTACTCTCAGAGAAATATACAGCCTTTCTCCCAATCCAGCTGAGTGCAGC 1807  
QY 241 TTGAGGATCCAGAGTTCCTCAACCTTCACATCATGACAGCATTAATGCTATGTTTGG 300  
Db 1808 TTGAGGATCCAGAGTTCCTCAACCTTCACATCATGACAGCATTAATGCTATGTTTGG 1867  
QY 301 ATAGTTTCAGTGTGTCATGTTGTTGATGAGTGGCATCTGTATCTTAAGCATTTG 360  
Db 1868 ATAGTTTCAGTGTGTCATGTTGTTGATGAGTGGCATCTGTATCTTAAGCATTTG 1927  
QY 361 GAGCAGACACTGACTCTCTTCTGTCTTCTCTGTGTATATACCTTGAACACAAATGG 420  
Db 1928 GAGCAGACACTGACTCTCTTCTGTCTTCTCTGTGTATATACCTTGAACACAAATGG 1987  
QY 421 TCTATGAGACACACTCACCCTATTTCCATCTCAGAGAAACGTCTTATGTCATGG 480  
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QY 661 CCCAGATCCACAGCTCTTGAAGCCCATCAAGCCGAATTAATCTGATCTAGTCTAGT 720  
Db 2228 CCCAGATTCAGACACCGTATGACACTAGGCAAAAGCAATTTATGCCACCATTTCCAG 2287  
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Db 2288 AAAATGACATAGAGA 2302

## RESULT 13

US-08-121-202-1

; Sequence 1, Application US/08121202  
; Patent No. 5563045

## GENERAL INFORMATION:

APPLICANT: Pittman, Debra  
APPLICANT: Rehmetulla, Alnawaz  
APPLICANT: Wozney, John M.

APPLICANT: Kaufman, Randal J  
TITLE OF INVENTION: CHIMERIC PROCOAGULANT PROTEINS  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Legal Affairs, Genetics Institute, Inc.  
STREET: 87 Cambridgepark Drive  
CITY: Cambridge  
STATE: MA  
COUNTRY: USA  
ZIP: 02140  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/121,202  
FILING DATE: 14-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Meinel, M. C.  
REGISTRATION NUMBER: 31,544  
REFERENCE/DOCKET NUMBER: GI 5195A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)876-1210 X8574  
TELEFAX: (617) 876-5851  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7056 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..7053  
US-08-121-202-1

Query Match 67.0%; Score 671; DB 1; Length 7056;  
Best Local Similarity 94.6%; Pred. No. 1e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 AATCAGATCTCTGGTGGCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGATC 60  
DB 1625 AATCAGATCTCTGGTGGCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGATC 1684  
QY 61 TAGCTTCAGAGCTATGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 120  
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QY 181 GAAGCTGTACTCTCAGACAAGATATATCAAGCTTCTCCCAATCCAGCTGAGAGACC 240  
DB 1805 GAAGCTGTACTCTCAGACAAGATATATCAAGCTTCTCCCAATCCAGCTGAGAGACC 1864  
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DB 1865 TTGAGATCCAGAGTTCACAGCTCCACATCATGATGACACAGATCAATGCTATGTTTTG 1924  
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DB 1925 ATAGTTTCAGATGTCAGATTTGTTTTCATGAGAGTGGCATCTGTTACATTTCAAGCATTTG 1984  
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DB 1985 GAGCAGACAGTACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 2044  
QY 421 TCTATGAAGACACTACCTCATTCCTCATTTCTCAGAGAAATGTTCTTCTCATGTGATGG 480

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DB 2045 TCTATGAAGACACTACCTCATTCCTCATTTCTCAGAGAAATGTTCTTCTCATGTGATGG 2104  
QY 481 AAAACCCAGTCTATGATTTCTGGGGTCCACAATCTCAGACTTTGGGAGACAGGATGA 540  
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QY 541 CCGCTTACTGAAGGTTTCTAGTTGTGACAAGAACCTGCTGATTTATACGAGACAGTT 600  
DB 2165 CCGCTTACTGAAGGTTTCTAGTTGTGACAAGAACCTGCTGATTTATACGAGACAGTT 2224  
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DB 2285 CCCAGATCCACAGCTTTGAAACCCATATACGCCAATATACCTGATCTCTTCTGAT 2344  
QY 721 CAGATCAAGAGGATA 735  
DB 2345 AAAATGACATAGACA 2359

RESULT 14  
5171844-1  
; Patent No. 5171844  
; APPLICANT: VAN OYEN, ALBERT J.J.; PANNEKOEK, HANS; VERBET,  
; MARTINUS P.; VAN LEEN, ROBERT W.  
; TITLE OF INVENTION: PROTEINS WITH FACTOR VIII ACTIVITY  
; PROCESS FOR THEIR PREPARATION USING GENETICALLY-ENGINEERED CELLS  
; AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM  
; NUMBER OF SEQUENCES: 12  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/205,226  
; FILING DATE: 10-JUN-1988  
; SEQ ID NO: 1:  
; LENGTH: 8241  
5171844-1

Query Match 67.0%; Score 671; DB 6; Length 8241;  
Best Local Similarity 94.6%; Pred. No. 1e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

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QY 181 GAAGCTGTACTCTCAGACAAGATATATCAAGCTTCTCCCAATCCAGCTGAGAGACC 240  
DB 1811 GAAGCTGTACTCTCAGACAAGATATATCAAGCTTCTCCCAATCCAGCTGAGAGACC 1870  
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QY 361 GAGCAGACAGTACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 420  
DB 1991 GAGCAGACAGTACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 2050  
QY 421 TCTATGAAGACACTACCTCATTCCTCATTTCTCAGAGAAATGTTCTTCTCATGTGATGG 480



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QY 541 CCGCCTTACTGAGGTTTCTAGTTGTGACAAAGACACTGGTATTTATGAGAGACAGTT 600  
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## RESULT 15

US-08-366-851A-1  
; Sequence 1, Application US/08366851A  
; Patent No. 5681746  
; GENERAL INFORMATION:

APPLICANT: Bodner, Mordechai  
APPLICANT: De Polo, Nicolas J.  
APPLICANT: Hsu, David Chi-Tang  
APPLICANT: Chang, Steven  
TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Viagene, Inc.  
STREET: 11055 Roselle Street  
CITY: San Diego  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 92121

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/366,851A  
FILING DATE:

CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Chambers, Daniel M.  
REGISTRATION NUMBER: 34,561  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 452-1288  
TELEFAX: (619) 452-2616  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8967 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: unknown  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 110..7165  
US-08-366-851A-1

Query Match 67.0%; Score 671; DB 1; Length 8967;  
Best Local Similarity 94.6%; Pred. No. 1.2e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

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8017.350 Million cell updates/sec

Title: US-09-740-211-14\_COPY\_2040\_3040

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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0

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Maximum Match 100%

Listing first 45 summaries

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Published Applications NA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	1001	100.0	4999	10 US-09-740-211-14	Sequence 14, Appl
3	947.4	94.6	4629	10 US-09-150-811-7	GENERAL INFORMA
4	947.4	94.6	7944	12 US-10-095-718-1	Sequence 1, Appl
5	919	91.8	11933	9 US-10-007-968-13	Sequence 13, Appl
6	919	91.8	11933	10 US-09-740-211-13	Sequence 13, Appl
7	696.6	69.6	7914	12 US-10-095-718-3	Sequence 3, Appl
8	671	67.0	9009	9 US-09-957-641-1	Sequence 1, Appl
9	153.6	15.3	6909	10 US-09-880-107-2275	Sequence 2275, Ap
10	124.4	12.4	3700	10 US-09-917-800A-1559	Sequence 1539, Ap
11	117.4	11.7	3321	9 US-09-970-966-1175	Sequence 175, App
12	117.4	11.7	3321	10 US-09-825-284-175	Sequence 175, App
13	117.4	11.7	3321	10 US-09-880-107-2253	Sequence 2253, App
14	63	6.3	596	10 US-09-864-864-114	Sequence 114, App
15	61.8	6.2	404	10 US-09-778-320-132	Sequence 132, App
16	61.8	6.2	404	10 US-09-910-689-132	Sequence 132, App
17	61.8	6.2	404	12 US-10-010-742-132	Sequence 132, App
18	58.2	5.8	135	10 US-09-748-062-26	Sequence 26, Appl
19	49.4	4.9	126	10 US-09-748-062-16	Sequence 16, Appl

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C	21	42.6	4.3	591	10	US-09-864-761-15258	Sequence 15258, A
C	22	41.6	4.2	389	10	US-09-960-352-12959	Sequence 12959, A
C	23	38.2	3.8	597	10	US-09-764-847-129	Sequence 129, App
C	24	37.6	3.8	592	10	US-09-924-035A-407	Sequence 407, App
C	25	37.4	3.7	362	10	US-09-820-089A-19	Sequence 19, Appl
C	26	37.4	3.7	405	10	US-09-070-927A-151	Sequence 151, App
C	27	36.4	3.6	442	10	US-09-960-352-10117	Sequence 10117, A
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C	33	34	3.4	172637	10	US-09-805-458A-3	Sequence 3, Appl
C	34	33.8	3.4	1124	10	US-09-770-445A-88	Sequence 88, Appl
C	35	33.8	3.4	4263	10	US-09-801-368-355	Sequence 355, App
C	36	33.6	3.4	126	10	US-09-748-062-20	Sequence 20, Appl
C	37	33.4	3.3	495	10	US-09-815-242-4527	Sequence 4527, Ap
C	38	33.4	3.3	525	10	US-09-815-242-8356	Sequence 8356, Ap
C	39	33.4	3.3	525	10	US-09-815-242-8689	Sequence 8689, Ap
C	40	33.4	3.3	525	10	US-09-815-242-8946	Sequence 8946, Ap
C	41	33	3.3	424	10	US-09-864-761-4675	Sequence 4675, Ap
C	42	33	3.3	27483	10	US-09-764-877-2928	Sequence 2928, Ap
C	43	32.8	3.3	207	10	US-09-963-352-15083	Sequence 15083, A
C	44	32.8	3.3	247	10	US-09-878-574-15598	Sequence 15598, A
C	45	32.8	3.3	704	10	US-09-880-107-1671	Sequence 1671, Ap

#### ALIGNMENTS

RESULT 1  
US-10-007-968-14  
Sequence 14, Application US/10007968  
Patent No. US2002013997A1  
GENERAL INFORMATION:  
APPLICANT: Coult, Linda B.  
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
TITLE OF INVENTION: by Target Cells  
FILE REFERENCE: AVigen-04082  
CURRENT APPLICATION NUMBER: US/10/007, 968  
CURRENT FILING DATE: 2001-12-13  
PRIOR APPLICATION NUMBER: 09/740, 211  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 60/125, 974  
PRIOR FILING DATE: 1999-03-24  
PRIOR APPLICATION NUMBER: 60/104, 994  
PRIOR FILING DATE: 1998-10-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 14  
LENGTH: 4999  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-14  
Query Match 100.0%; Score 1001; DB 9; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 1.3e-285;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 AATCAGATCCTCGGTGCCTGACCCGCTATTACTGATTGCTGTAATATGAGAGATC 60  
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61 TAGCTTGAAGACTATTGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 120  
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121 GAACACATATATGTCAGACAAGAGGATGTCATCTGTTTGTATTTGATGAGAAC 180  
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: RESULT 2
: US-09-740-211-14
: Sequence 14, Application US/09740211
: Patent No. US20010010815A1
: GENERAL INFORMATION:
:
: APPLICANT: Couto, Linda B.
: APPLICANT: Colosi, Peter C.
: TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
: TITLE OF INVENTION: by Target Cells
: FILE REFERENCE: Avigen-04082
: CURRENT APPLICATION NUMBER: US/09/740,211
: CURRENT FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: 09/470,618
: PRIOR FILING DATE: 1999-12-22

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? PRIOR APPLICATION NUMBER: 60/125,974
? PRIOR FILING DATE: 1999-03-24
? PRIOR APPLICATION NUMBER: 60/104,994
? PRIOR FILING DATE: 1998-10-20
? NUMBER OF SEQ ID NOS: 15
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 14
? LENGTH: 4999
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-740-211-14

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Query Match	100.0%;	Score 1001;	DB 10;	Length 4999;
Best Local Similarity	100.0%;	Pred. No. 1.3e-285;		
Matches 1001;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Qy	361	GAGCAGACTGACTCCCTTCTGTCTCTTCTCTGTGGATATACCTTCAAAACAATAATGG	420
Db	2400	GAGCAGACTGACTCCCTTCTGTCTCTTCTCTGTGGATATACCTTCAAAACAATAATGG	2459
Qy	421	TCTATGAAGACACACCTACCCCTATTCCTCATCTCAGAGAAACTGCTTCATGTGATGG	480
Db	2460	TCTATGAAGACACACCTACCCCTATTCCTCATCTCAGAGAAACTGCTTCATGTGATGG	2519
Qy	481	AAAACCCAGGTCTATGGAATCTGGGGGTGCACAACTCAGACTTTTGGAAACAGAGCATGA	540
Db	2520	AAAACCCAGGTCTATGGAATCTGGGGGTGCACAACTCAGACTTTTGGAAACAGAGCATGA	2579
Qy	541	CCGCCTTACTGAGGTTTCTAGTTGTGACAGAAACCTGTGATTTATCGAGACACTT	600
Db	2580	CCGCCTTACTGAGGTTTCTAGTTGTGACAGAAACCTGTGATTTATCGAGACACTT	2639
Qy	601	ATGGAAGATTTTTCAGCACTACTTGTCTGTAGTAAAAACAATGCCATTAACCAAGAAAGCTTCT	660
Db	2640	ATGGAAGATTTTTCAGCACTACTTGTCTGTAGTAAAAACAATGCCATTAACCAAGAAAGCTTCT	2699
Qy	661	CCCAAGATTCACACAGTCTTGAAGAGGCATCAACGGGAATAAATCTGTACTACTCTTCAGT	720
Db	2700	CCCAAGATTCACACAGTCTTGAAGAGGCATCAACGGGAATAAATCTGTACTACTCTTCAGT	2759
Qy	721	CAGATCAAGAGAAATTTGACTATGATGATACCATATCTAGTTGAATGAAGAAGAAATTT	780
Db	2760	CAGATCAAGAGAAATTTGACTATGATGATACCATATCTAGTTGAATGAAGAAGAAATTT	2819
Qy	781	TTGACATTTATGATGAGATGAAGAAATCAAGGCCCGGACGTTTCAAAAAGAAACACAGAC	840
Db	2820	TTGACATTTATGATGAGATGAAGAAATCAAGGCCCGGACGTTTCAAAAAGAAACACAGAC	2879



1 CURRENT APPLICATION NUMBER: US/10/095,718  
2 CURRENT FILING DATE: 2002-03-12  
3 PRIOR APPLICATION NUMBER: 09/689,430  
4 PRIOR FILING DATE: 2001-08-22  
5 PRIOR APPLICATION NUMBER: 60/158,780  
6 PRIOR FILING DATE: 1999-10-12  
7 NUMBER OF SEQ ID NOS: 5  
8 SOFTWARE: FASTED for Windows Version 4.0  
9 SEQ ID NO: 1  
10 LENGTH: 7944  
11 TYPE: DNA  
12 ORGANISM: Artificial Sequence  
13 FEATURE:  
14 OTHER INFORMATION: Plasmid pDLZ6 encoding Homo sapiens BDD FVIII  
15 FEATURE:  
16 NAME/KEY: CDS  
17 LOCATION: (420)...(4835)  
18 US-10-095-718-1

Query Match 94.6%; Score 947.4; DB 12; Length 7944;  
Best Local Similarity 95.9%; Pred. No. 1.1e-269;  
Matches 1000; Conservative 0; Mismatches 1; Indels 42; Gaps 1;

QY 1 AATGAGATCCCTGGGCTGACCCGCTATTACTAGTTTCCTAATATGAGAGATGC 60  
DB 2044 AATGAGATCCCTGGGCTGACCCGCTATTACTAGTTTCCTAATATGAGAGATGC 2103  
QY 61 TAGGCTCAGAGCTATGGCCCTCCCTCCATGCTGACAAAGAAATCTAGATCAAG 120  
DB 2104 TAGGCTCAGAGCTATGGCCCTCCCTCCATGCTGACAAAGAAATCTAGATCAAG 2163  
QY 121 GAAACAGATTAATGTCAGACAAGAGAAATGTCATCCTGTTTCTGATTTGATGAGAAC 180  
DB 2164 GAAACAGATTAATGTCAGACAAGAGAAATGTCATCCTGTTTCTGATTTGATGAGAAC 2223  
QY 181 GAAGCTGGTACTCAGACAGAAATATGAAACGCTTTCTCCCAATCAGCTGAGTGCAGC 240  
DB 2224 GAAGCTGGTACTCAGACAGAAATATGAAACGCTTTCTCCCAATCAGCTGAGTGCAGC 2283  
QY 241 TTGAGAGTCAAGATTCCTCAAGCTCCCAATCATGATCATGATGATGATTTTGG 300  
DB 2284 TTGAGAGTCAAGATTCCTCAAGCTCCCAATCATGATCATGATGATGATTTTGG 2343  
QY 301 ATAGTTTGAGTTGTCAGATTTGTTGTCATGAGGTGGCATCTGATCAATTTCAAGCAT 360  
DB 2344 ATAGTTTGAGTTGTCAGATTTGTTGTCATGAGGTGGCATCTGATCAATTTCAAGCAT 2403  
QY 361 GAGCAGACGACTGCT 420  
DB 2404 GAGCAGACGACTGCT 2463  
QY 421 TCTATGAACACACACACACACACATTCCTCTCAGAGAAACGCTCTCATGATGATG 480  
DB 2464 TCTATGAACACACACACACACATTCCTCTCAGAGAAACGCTCTCATGATGATG 2523  
QY 481 AAACCCAGCTGTATGATTTCTGGGGTGCACAACTCAGACTTGGGAACAGAGCATGA 540  
DB 2524 AAACCCAGCTGTATGATTTCTGGGGTGCACAACTCAGACTTGGGAACAGAGCATGA 2583  
QY 541 CCGCCTTACTGAAGTTTCTTACTTGTGACAGAAACACTGGTATTTATACAGAGCAT 600  
DB 2584 CCGCCTTACTGAAGTTTCTTACTTGTGACAGAAACACTGGTATTTATACAGAGCAT 2643  
QY 601 ATGAGATATTTACAGATCTGCTGAGTAAACAAATGCGATTAACCAAGAACTCTCT 660  
DB 2644 ATGAGATATTTACAGATCTGCTGAGTAAACAAATGCGATTTAATGCAAGAACTCTCT 2703  
QY 661 CCCAGAT-----CCACAGCTCT 678  
DB 2704 CCCAGATTTCAAGACACCTTACACTAGGCAAAAGCAATTTAATGCCACCCACAGCTCT 2763  
QY 679 TGAAGCGCATTAAGCGAAATTAATCTGACTCTTCAAGTCAAGATCAAGAGAAATG 738

DB 2764 TGAAGCGCATTAAGCGAAATTAATCTGACTCTTCAAGTCAAGATCAAGAGAAATG 2823  
QY 739 ACTATGATGATACATATACATGATTAATGAAGAGAAAGATTTGATGATATGATGAG 798  
DB 2824 ACTATGATGATACATATACATGATTAATGAAGAGAAAGATTTGATGATATGATGAG 2883  
QY 799 ATGAAGATCAGAGCCCGGAGCTTTCAAGAAAGAAACAGCACTATTTATGCTCAG 858  
DB 2884 ATGAAGATCAGAGCCCGGAGCTTTCAAGAAAGAAACAGCACTATTTATGCTCAG 2943  
QY 859 TGGAGAGCTCTGGGATTTATGAGATGAGTACCTCCCAATCTTTCTAAGAAACAGGCTC 918  
DB 2944 TGGAGAGCTCTGGGATTTATGAGATGAGTACCTCCCAATCTTTCTAAGAAACAGGCTC 3003  
QY 919 AGAGTGGAGTGTCCCTCAGTTCAAGAAAGTGTTCCTCCAGAAATTTATGATGATGCTCT 978  
DB 3004 AGAGTGGAGTGTCCCTCAGTTCAAGAAAGTGTTCCTCCAGAAATTTATGATGATGCTCT 3063  
QY 979 TTACTCAGCCCTTATACCGTGA 1001  
DB 3064 TTACTCAGCCCTTATACCGTGA 3086

RESULT 5  
US-10-007-968-13  
Sequence 13, Application US/10007968  
Patent No. US20020159977A1

GENERAL INFORMATION:  
APPLICANT: Coulo, Linda B.  
APPLICANT: Colosi, Peter C.  
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
FILE REFERENCE: Avigen-04082  
CURRENT APPLICATION NUMBER: US/10/007,968  
PRIOR FILING DATE: 2001-12-13  
PRIOR APPLICATION NUMBER: 09/740,211  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 60/125,974  
PRIOR FILING DATE: 1999-03-24  
PRIOR APPLICATION NUMBER: 60/104,994  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patent Ver. 2.0  
SEQ ID NO 13  
LENGTH: 11933  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-13

Query Match 91.8%; Score 919; DB 9; Length 11933;  
Best Local Similarity 96.4%; Pred. No. 3.4e-261;  
Matches 965; Conservative 0; Mismatches 0; Indels 36; Gaps 1;

QY 1 AATGATCCCGGCTGACCCGCTATTACTAGTTTCCTAATATGAGAGATGC 60  
DB 2051 AATGATCCCGGCTGACCCGCTATTACTAGTTTCCTAATATGAGAGATGC 2110  
QY 61 TAGCTCAGAGCTATGGCCCT 120  
DB 2111 TAGCTCAGAGCTATGGCCCT 2170  
QY 121 GAAACAGATTAATGTCAGACAAGAGAAATGTCATCCTGTTTCTGATTTGATGAGAAAC 180  
DB 2171 GAAACAGATTAATGTCAGACAAGAGAAATGTCATCCTGTTTCTGATTTGATGAGAAAC 2230  
QY 181 GAAGCTGGTACTCAGACAGAAATATGAAACGCTTTCTCCCAATCAGCTGAGTGCAGC 240  
DB 2231 GAAGCTGGTACTCAGACAGAAATATGAAACGCTTTCTCCCAATCAGCTGAGTGCAGC 2290  
QY 241 TTGAGATCAGAGTTCAAGCTCCCAATCATGACAGATCAATGCTATGTTTGG 300

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Db 2291 TTGAGATCCAGAGTTCCAGGCTCCAAACATCATCATCAGCATCATGCTATGTTTTC 2350
QY 301 ATAGTTTGAGTTGTCAGTTGTTTGTGATGAGGTGGCATCTGATCTTAAAGCATTTG 360
    |||||
Db 2351 ATAGTTTGAGTTGTCAGTTGTTTGTGATGAGGTGGCATCTGATCTTAAAGCATTTG 2410
QY 361 GAGCAGACAGTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420
    |||||
Db 2411 GAGCAGACAGTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2470
QY 421 TCTATGAGACACACTGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 480
    |||||
Db 2471 TCTATGAGACACACTGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2530
QY 481 AAAACCCAGGTCATGATTTCTGAGGTGGCCACACACTGAGCTTTGGAACAGAGCATGA 540
    |||||
Db 2531 AAAACCCAGGTCATGATTTCTGAGGTGGCCACACACTGAGCTTTGGAACAGAGCATGA 2590
QY 541 CCGCCTTACTGAGTTTCTACTGTCGACAAAGACAGGTGATTTATGAGGAGCATTT 600
    |||||
Db 2591 CCGCCTTACTGAGTTTCTACTGTCGACAAAGACAGGTGATTTATGAGGAGCATTT 2650
QY 601 ATGAAGATATTTACAGATCTGCTGAGTAAACAAATGCCATTTGACCAAGAGAGCTTCT 660
    |||||
Db 2651 ATGAAGATATTTACAGATCTGCTGAGTAAACAAATGCCATTTGACCAAGAGAGCTTCT 2708
QY 661 CCGAGATCCACAGTCTTGAACGCCCATCAAGCGCAATTAATCTGATCTTCTCAGT 720
    |||||
Db 2709 -----CGAATAATACCTGATCTACTCTTCTCAGT 2734
QY 721 CAGATCAAGAGAAATGACTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
    |||||
Db 2735 CAGATCAAGAGAAATGACTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2794
QY 781 TTGACATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 840
    |||||
Db 2795 TTGACATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2854
QY 841 ACTATTTTATGCTGAGTGGAGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGAT 900
    |||||
Db 2855 ACTATTTTATGCTGAGTGGAGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGAT 2914
QY 901 TTCTAAGAAACAGGGCTCAGAGTGGAGAGGCTTGGGATTTATGAGTATGATGATGATGAT 960
    |||||
Db 2915 TTCTAAGAAACAGGGCTCAGAGTGGAGAGGCTTGGGATTTATGAGTATGATGATGATGAT 2974
QY 961 AATTACTGATGCTCTTACTCAGCCCTTATATCCGTGA 1001
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Db 2975 AATTACTGATGCTCTTACTCAGCCCTTATATCCGTGA 3015

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RESULT 6
US-09-740-211-13
; Sequence 13, Application US/09740211
; Patent No. US20010010815A1
; GENERAL INFORMATION:
; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: Avigen-04082
; CURRENT APPLICATION NUMBER: US/09/740,211
; PRIORITY FILING DATE: 2000-12-18
; PRIORITY APPLICATION NUMBER: 09/470,618
; PRIORITY FILING DATE: 1999-12-22
; PRIORITY APPLICATION NUMBER: 60/125,974
; PRIORITY FILING DATE: 1999-03-24
; PRIORITY APPLICATION NUMBER: 60/104,994
; PRIORITY FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 11933

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-740-211-13
Query Match 91.8%; Score 919; DB 10; Length 11933;
Best Local Similarity 96.4%; Pred. No. 3.4e-261;
Matches 965; Conservative 0; Mismatches 0; Indels 36; Gaps 1;
QY 1 AATAGATCTCTCGGTGCTGACCGGCTATTTACTCTACTCTTCTGTTATATGAGAGAGATC 60
    |||||
Db 2051 AATAGATCTCTCGGTGCTGACCGGCTATTTACTCTACTCTTCTGTTATATGAGAGAGATC 2110
QY 61 TAGCTTACAGACTATTGGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
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Db 2111 TAGCTTACAGACTATTGGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2170
QY 121 GAAACCGATATATGTGACAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 180
    |||||
Db 2171 GAAACCGATATATGTGACAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 2230
QY 181 GAACCTGTACCTCAGAGAGATATATACAGCTTCTCCCAATCCAGCTGAGTGCAGC 240
    |||||
Db 2231 GAACCTGTACCTCAGAGAGATATATACAGCTTCTCCCAATCCAGCTGAGTGCAGC 2290
QY 241 TTGAGATCCAGATTTCCAAAGCTTCCAAACATCATGACAGATCAATGAGCTATGTTTTC 300
    |||||
Db 2291 TTGAGATCCAGATTTCCAAAGCTTCCAAACATCATGACAGATCAATGAGCTATGTTTTC 2350
QY 301 ATAGTTTGAGTTGTCAGTTGTTTGTGATGAGGTGGCATCTGATCTTAAAGCATTTG 360
    |||||
Db 2351 ATAGTTTGAGTTGTCAGTTGTTTGTGATGAGGTGGCATCTGATCTTAAAGCATTTG 2794
QY 361 GAGCAGACAGTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420
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Db 2411 GAGCAGACAGTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2470
QY 421 TCTATGAGACACACTGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 480
    |||||
Db 2471 TCTATGAGACACACTGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2530
QY 481 AAAACCCAGGTCATGATTTCTGAGGTGGCCACACACTGAGCTTTGGAACAGAGCATGA 540
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Db 2531 AAAACCCAGGTCATGATTTCTGAGGTGGCCACACACTGAGCTTTGGAACAGAGCATGA 2590
QY 541 CCGCCTTACTGAGTTTCTACTGTCGACAAAGACAGGTGATTTATGAGGAGCATTT 600
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Db 2591 CCGCCTTACTGAGTTTCTACTGTCGACAAAGACAGGTGATTTATGAGGAGCATTT 2650
QY 601 ATGAAGATATTTACAGATCTGCTGAGTAAACAAATGCCATTTGACCAAGAGAGCTTCT 660
    |||||
Db 2651 ATGAAGATATTTACAGATCTGCTGAGTAAACAAATGCCATTTGACCAAGAGAGCTTCT 2708
QY 661 CCGAGATCCACAGTCTTGAACGCCCATCAAGCGCAATTAATCTGATCTTCTCAGT 720
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Db 2709 -----CGAATAATACCTGATCTACTCTTCTCAGT 2734
QY 721 CAGATCAAGAGAAATGACTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
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Db 2735 CAGATCAAGAGAAATGACTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2794
QY 781 TTGACATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 840
    |||||
Db 2795 TTGACATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2854
QY 841 ACTATTTTATGCTGAGTGGAGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGATGAT 900
    |||||
Db 2855 ACTATTTTATGCTGAGTGGAGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGATGAT 2914
QY 901 TTCTAAGAAACAGGGCTCAGAGTGGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGAT 960
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Db 2915 TTCTAAGAAACAGGGCTCAGAGTGGAGAGGCTTGGGATTTATGAGTATGATGATGATGATGAT 2974

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**OY**    961 AATTACTGATGGCCTTACTACGCCCTTAACCGTGGA 1002  
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**Db**    2975 AATTACTGATGGCTCCCTTACTACAGCCCTTAACGTGGA 3015

RESULT 7  
US-10-095-718-3  
; Sequence 3, Application US/10095718  
; Patent No. US20020131956A1  
; GENERAL INFORMATION:

? APPLICANT: Walsh, Christopher  
 ? APPLICANT: Chao, Hengjun  
 ? APPLICANT: Burshtein, Haim  
 ? APPLICANT: Lynch, Carmel  
 ? APPLICANT: Stepan, Tony  
 ? APPLICANT: Munson, Kelth  
 ? TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VII and  
 ? TITLE OF INVENTION: Methods of Using the Same

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: OTHER INFORMATION: rAAV vector with canine B-domain deleted factor
:
: OTHER INFORMATION: VIII
:
: FEATURE:
:
: NAME/KEY: CDS
: LOCATION: (435)...(4730)
US-10-095-718-3

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Query Match	69.6%;	Score 696.6;	DB 12;	Length 7914;
Best Local Similarity	83.1%;	Pred. No. 1.5e-195;		
Matches 832;	Conservative	0;	Mismatches 109;	Indels 60;
				Gaps 1;

QY	1	AAAGAGTCTCTGCTGCTCCACACCCGCTATTACTCTAGTTTCTGTTAATATGAGAGAGATC	60
Db	2041	AATGATGATCTCGGTGCTTACCACCGATATTTATTCAGAGCTTCAATTATTCGGAGAGATC	2100
QY	61	TAGCTTAGAGACATATGGGCTCTCTCTCATCTGCTACAGAAAGATCTGTATGATTCAGAAAG	120
Db	2101	TAGCTTAGAGACTCATATGGCCCTCTCTCTCATCTGCTACAGAAAGATCTGTATGATTCAGAAAG	2160
QY	121	GAACACGATAAATGTCTAGACAGAGGAATGTCTCTGTTTCTGTATTTGATGGAAC	180
Db	2161	GAACACGATATGATGTCTAGACAGAGGAATGTCTCTGTTTCTGTATTTGATGGAATC	2220
QY	181	GAAGCTGGTACTCTACAGAGATATATCAAGCGTTTCTCCCATCTCAGCTGAGTGCAGC	240
Db	2221	GAAGCTGGTACTCTACAGAGAAATATGACGGCTTCTCTCCCATCTCAGATGTAGTGCAGC	2280
QY	241	TTGAGGATCCAGAGTTCCAAAGCCTCCACATCATGTGCACAGATCAATGGCATATGTTTTTG	300
Db	2281	CCCATGACCCAGAGTTCCAAACCTCTTAACATCATGTGCACAGATCAATGGCATATGTTTTTG	2340
QY	301	ATAGATTGCAGTTGTCTAGTTTGTGTCAGTAGAGGTGGCATATCTGGATATCTTCAAGCATTG	360
Db	2341	ACAACCTGCACTGTCTAGTTTGTGTCATGAGGTGGCATATCTTAAGTGTGG	2400
QY	361	GAGCAGACAGACTACTTCTTTTCTGTCTCTCTCTGATATACCTTCAACACAAAATGG	420
Db	2401	GAGCAGACAACTGACTTCTGTCTGTCTCTCTCTGATATACCTTCAACACAAAATGG	2460
QY	421	TCATATGAGACACACTTCACCCATTATTCACATTTCTCAGAGAAAGTCTTTCATGTCGATGG	480

Db 2461 TCTATGAGACACACATTACCTCTTCCATTCTCAGGAGAAACGCTTCATGTCATG 2520

yy 401 AAACCCAGGCTCAAGGATTCGGGGGCCACAACATCAGACTTCCGGAACAGAGGCATGA 540  
|||||  
Db 2521 AAAACCCAGGCTCTGGGTTCGGGGGCCACAACATCAGACTTTCCGGAACAGAGGCATGA 2580

2581 CAGCTTACGAGGTTCTAGTTGTAAACAGGACATTGATGATTATTATGAGGACACAT 2640

87  
 2641  
 Db  
 2641  
 2700

Db 2701 CCCAGATTCTAAGGCACCCCTTAGCAGCAAAAGCAATTGA-----2742

Db 2743 -----AAATGAAGACGAGAAATT 2760

Db 2761 TTGACATCTAGGGGCACTATGAAATTCAGGGCCTCCGCAGCTTCAAAAGAAACACGAC 2820

Db 2821 ACCTATTCATTGCTGCAGTGGAGCGTCTCTGGGATTATGGGATGAGTAGATCTCCCATATA 2880

Db 2881 TACTAAGAAACAGGGCTCAAAAGTGGGGATGTCACAGCTTCAGAAAGGTGCTTTCCAGG 2940  
 961 AATTATCTGATGGCGTCTTTTAACTCAACCCCGATTACCCCTGCA 1001

Db 294.1 AATTACGATGATCCTTACTCAGCCCTTATACCGTGA 2981

US-09-957-641-1  
; Sequence 1, Application US/09957641  
; Publication No. US20020182670A1

GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: MODIFIED FACTOR VIII  
FILE REFERENCE: 75-00  
CURRENT APPLICATION NUMBER: US/09/957,641  
PENDING FILING DATE: 2001-09-16  
PRIOR APPLICATION NUMBER: US 60/234047  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: US 60/236460  
PRIOR FILING DATE: 2000-09-29  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 1

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (208)..(7203)
;
US-09-957-641-1

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Query Match	67.0%;	Score 671;	DB 9;	Length 9009;
Best Local Similarity	94.6%;	Pred. No. 6e-186;		
Matches 695; Conservative	0;	Mismatches 40;	Indels 0;	Gaps 0

QY 1 AATCAGATCCTCGGTGCTACCCGCTATTACTCTAGTTTCGTAATATGGAGAGAGATC 60  
|||||  
Db 1775 AATCAGATCCTCGGTGCTACCCGCTATTACTCTAGTTTCGTAATATGGAGAGAGATC 1834



Qy	61	TAGCTTAGAGACATATTTGGCCCTCTCCATATCGCTACAAACAAATCTGTAGTCAAAAG	120
Db	1835	TAGCTTAGAGACATCATTTGGCCCTCTCCATATCGCTACAAACAAATCTGTAGTCAAAAG	1894
Qy	121	GAACACGATTAATGTCTGACACAAAGGAATGTCACTCTGTATTGTATGTAGAAC	180
Db	1895	GAACACGATTAATGTCTGACACAAAGGAATGTCACTCTGTATTGTATGTAGAAC	1954
Qy	181	GAACCTGTACCTCCACGACAAATATCAACGCTTCTCTCCCAATCAGCTGGAGTGCAC	240
Db	1955	GAACCTGTACCTCCACGACAAATATCAACGCTTCTCTCCCAATCAGCTGGAGTGCAC	2014
Qy	241	TTTGAGATCCAGAGTTTCCAAAGCCTCCACATCATGACACAGCATCAATGCTATGTTTTG	300
Db	2015	TTTGAGATCCAGAGTTTCCAAAGCCTCCACATCATGACACAGCATCAATGCTATGTTTTG	2074
Qy	301	ATATGTTGCAGTGTCTCAGTTTGTTTGCAATGAGTGGCATACTGTGTAATCTTAAGCATTG	360
Db	2075	ATATGTTGCAGTGTCTCAGTTTGTTTGCAATGAGTGGCATACTGTGTAATCTTAAGCATTG	2134
Qy	361	GAGACACAGACGACTTCCTTCTGTCTCTCTCTGATATACCTTCAACCAACAAATGG	420
Db	2135	GAGACACAGACTTCCTTCTGTCTCTCTCTGATATACCTTCAACCAACAAATGG	2194
Qy	421	TCTATGAAGACACACTCCACCTATTCCTCATCTCAGAGAAACTGTTTCATGTGTGATGG	480
Db	2195	TCTATGAAGACACACTCCACCTATTCCTCATCTCAGAGAAACTGTTTCATGTGTGATGG	2254
Qy	481	AAAACCCAGGCTATGTGATCTTGGGGTGCACACATCACAATTTGGGAACAAAGGCATGA	540
Db	2255	AAAACCCAGGCTATGTGATCTTGGGGTGCACACATCACAATTTGGGAACAAAGGCATGA	2314
Qy	541	CCGCTTACTGTAAGTGTCTAGTTGTGTACAAGAACACTGATGATTAATTCAGAGGACAGTT	600
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Qy	601	ATGAAAGATTTTCGCACTACTTGTGTAGTAAACAAATGCATGTGACCAAGAACCTCT	660
Db	2375	ATGAAAGATTTTCGCACTACTTGTGTAGTAAACAAATGCATGTGACCAAGAACCTCT	2434
Qy	661	CCCGAATTCACACAGTCTTGAAAGCGCATCAACGCGAAATTACTGCTACTACTCTAGT	720
Db	2435	CCCGAATTCACACACCTTACAGCATGTGCAAAAGCAATTTAATGCCACCAATTTCCAG	2494
Qy	721	CAGATCAAGAGGAAA	735
Db	2495	AAAATGACATAGAGA	2509

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1 RESULT 9
2 US-09-880-107-2275
3 / Sequence 2275, Application US/09880107
4 / Patent No. US20020142981A1
5 /
6 / GENERAL INFORMATION:
7 /
8 / APPLICANT: Horne, Darci T.
9 / APPLICANT: Vockley, Joseph G.
10 / APPLICANT: Scherf, Uwe
11 / APPLICANT: Gene Logic, Inc.
12 /
13 / TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
14 /
15 / FILE REFERENCE: 44921-5028-WO
16 /
17 / CURRENT APPLICATION NUMBER: US/09/880,107
18 /
19 / CURRENT FILING DATE: 2001-06-14
20 /
21 / PRIOR APPLICATION NUMBER: US 66/211,379
22 /
23 / PRIOR FILING DATE: 2000-06-14
24 /
25 / PRIOR APPLICATION NUMBER: US 66/237,054
26 /
27 / PRIOR FILING DATE: 2000-10-02
28 /
29 / NUMBER OF SEQ ID NOS: 3950
30 /
31 / SOFTWARE: PatentIn Ver. 2.1
32 /
33 / SEQ ID NO 2275
34 /
35 / LENGTH: 6909
36 /
37 / TYPE: DNA
38 /
39 / ORGANISM: Homo sapiens
40 /
41 / FEATURE:
42 /

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OTHER INFORMATION: Genbank Accession No. US20020142981A1 M16967  
US-09-880-107-2275

Query Match	15.38;	Score 153.6;	DB 10;	Length 6909;
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Matches 331; Conservative 0; Mismatches 274; Indels 3; Gaps 1;
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1 AATCAGATCCCTGGTGCCCTGACCCGCTATTACTCTAGTTTCGTTAATATGAGAGAGATC 60

Dh 1574 AAATGATGCCCACTGCTTAAACAAGACCATACTACAGTGACCTGGACATCATGAGAG

61 TACCTTCCACCATTATTTGCCCCCTTCCTCCTCATCTGCCTAACAAAGGAATTGTAGATCAAAGAG 120

1503

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[illegible]

LD 1034 GAAACAGGCGCCGCAGCAGGGCACTGGAATGTTTGTTCATTGGTGTAAGA

181 GAAGCTGGTACCTTCACAGAGAAATATCAACGCTTCTCCCAATCCAGCTGGAGTGCAC 240

Db 1754 AAAGCTGCTACCTTGAGGACAACATCAACAAGTTTGTGAAATCCCTGATGAGGTGAAC 1813

241 TTGAGGATCCAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATGTTTG 300

Db 1814 GTGATGACCCCAAGTTTATGAATCAACATCATGAGCACTATCAATGGCTATGCGCTG 1873

301 ATAGTTGC--AGTTGTCAGTTTGTTCATGAGGTGGCATACTGTTACATTCTAAGCA 357

Db 1874 AGAGCATACTACTCTTGATTCCTTGATGACACTGTCACAGTGGCACTTCTGTAGTG 1933

358 TTGGAGCAGAGCTGACTTCCCTTCTGTCCTTCTCTGGATATACCTCAACACACAAA 417

Dh 1934 TTTCCGACCGAATGCAAAATTTCAGCCTTACTGGGCACCTTCATTTCATTCTATGGAA 1993

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[illegible]

xy 338 10ACCGCCTAC10AAGG11C1AG1010ACAGGAGAGC10010G11A11ACAGAGAGC 339

Db 2114 TGAGGCTGAATTCAGGGAIGTAAATGTATCCAGATGATGATGAAGATCTCATATGAGA 2115

QY 598 GTTATGAA 605

Db 2174 TTTTGGAA 2181

RESULT 10  
US-09-917-800A-1539

; Sequence 1539, Application US/0991/800A  
Patent No. US20020119462A1

; GENERAL INFORMATION:

APPLICANT: Porter, Mark

APPLICANT: Castle, Arthur

APPLICANT: Gene Logic, Inc.

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; TITLE OF INVENTION: MOLECULAR BIOLOGY MODELING
; FILE REFERENCE: 44921-5038-US

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CURRENT APPLICATION NUMBER: 05/09/911,800A  
CURRENT FILING DATE: 2001-07-31

PRIOR APPLICATION NUMBER: US 60/222,040  
PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: US 60/222,880

PRIOR APPLICATION NUMBER: US 60/290,029





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; CURRENT APPLICATION NUMBER: US/09/864,864
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 114
; LENGTH: 596
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)...(596)
; OTHER INFORMATION: n = A,T,C or G
US-09-864-864-114

Query Match
Best Local Similarity 49.6%; Score 63; DB 10; Length 596;
Pred. No. 7.8e-09;
Matches 190; Conservative 0; Mismatches 190; Indels 3; Gaps 1;

QY 161 TTCTGATTTGATGAGAACCGAAGCTGTTACTCACAGAGAAATATACAAAGCTTTCTCC 220
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DB 12 TACAGATTTGATGAGAAATGAGAGATTTACTCCTGGAAGTATATATAGATGTTTACAA 71
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QY 221 CAATCAGCTGAGAGACCTGAGAGATTCAGATTCAGAGCTTCACATCATGTCACAG 280
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 72 TGCACCTGATCAGGTGGATGAGAGAGATGAAAGACTTTCAGATCTTAATAAATGCACTC 131
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 281 CATCAATGCGCTATGTTTGTATGATGTTGCACT---TGTCAAGTTTGTTCATGAGGTGC 337
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 132 CATGAATGATTCATGATGAGAAATCAGCGGCTCTCACTATGTCAGAAAGAGATGCTGT 191
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 338 ATACGTGATCATTTACGATTGAGACACAGACTGACTCTTCTGCTTCTTCTCTG 397
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 192 CGTGTGACTTATTCAGAGCGCGGAATGAGCGCATGATGAGAAATATGATCTTTTCAG 251
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 398 ATATACCTTCAAAACCAAAATGTTATGAGAGACACACTCCATCCATTCCTCAG 457
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 252 AAACACATATCTGTGAGAGAGAAACGAGAGACACAGCAACCTCTCCCTCAACAG 311
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QY 458 AGAACTGCTCTTCATGCTGATGAGAAACCAAGTCTATGATTCGAGGTGCCACACTC 517
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DB 312 TCTTACGCTCCACATGTGGCTGACACAGAGGAGACTTTTATGTTGAATGCTTACAC 371
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QY 518 AGACTTGGGAACAGAGCATCA 540
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DB 372 TGATCATTCACAGCGGCGCATGA 394
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RESULT 15
US-09-778-320-132/C
; Sequence 132: Application US/09778320
; Patent No. US20010034052A1
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Day, Craig H.
; APPLICANT: Jiang, Yugu
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Mitcham, Jennifer
; APPLICANT: Wang, TongTong
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.491C5
; CURRENT APPLICATION NUMBER: US/09/778,320
; CURRENT FILING DATE: 2001-02-06
; NUMBER OF SEQ ID NOS: 301
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 132
; LENGTH: 404
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)...(404)
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; OTHER INFORMATION: n = A,T,C or G
US-09-778-320-132

Query Match
Best Local Similarity 52.0%; Score 61.8; DB 10; Length 404;
Pred. No. 1.4e-08;
Matches 158; Conservative 0; Mismatches 145; Indels 1; Gaps 1;

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DB 341 CCTGTGTCTTACCTAGATGATGATTTATTTCTGCTGTGATCCCACTAAAGATATTCAC 282
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 69 GGAATGAGCCCTCTCCATCTGCTACAAAGAAATCTAGATCAAGAAACAG 128
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DB 281 GGGCTTATTTGGCCAAATGAAATATGCAAGAAAGAGTTTATATGCAATTTGGAGAGAG 222
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 129 ATATGTCAGACAGAGAGATGTCATCTGTTTCTGTATTTGATGAGAACCGAGCTGG 188
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DB 221 AAAGATGTAGCAAGGAATTCATTTGTTCTTACAGTATTTGATGAGAAATGAGAGTTTA 162
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QY 189 TACCTCACAGAGAAAT-TACAAGCTTTCTCCCAATCCAGCTGAGAGTGCAGCTTGAGA 247
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DB 161 CTCCTGAGAGATATATATTTAGSNATGTTTACAACTGCACTGATCAGTGAAGTAAAGAGA 102
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 248 TCCAGAGTTCCAGCCTCCCAACATCATGACACAGCATCAATGCTATGTTTGTATGATTT 307
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 101 TGAAGACTTTCAGGNATCTAATAAATGCACTCATGATGATTCATGATGGAATCA 42
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 308 GCAG 311
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DB 41 GCCG 38
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Search completed: January 5, 2003, 03:12:15  
Job time : 118 secs

GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 23:31:50 ; Search time 47 Seconds  
(without alignments)  
6531.563 Million cell updates/sec

Title: US-09-740-211-14\_COPY\_3600\_4600

Sequence: 1 atcaagattcgatgtat.....gcagtcagatgycatcag 1001

Scrolling cable: IDENT114-100  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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6 : /cgn2.6/plodata/1/ina/backfiles1.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

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2	1001	100.0	4670	3	US-08-717-294-41	Sequence 41, Appl
3	1001	100.0	4999	4	US-09-470-618-14	Sequence 14, Appl
4	1001	100.0	4999	4	US-09-364-862-14	Sequence 14, Appl
5	1001	100.0	5035	2	US-08-882-083-1	Sequence 1, Appli
6	1001	100.0	5035	2	US-08-558-107-1	Sequence 1, Appli
7	1001	100.0	5035	3	US-09-243-539-1	Sequence 1, Appli
8	1001	100.0	7056	1	US-08-121-702-1	Sequence 1, Appli
9	1001	100.0	8967	1	US-08-366-851A-1	Sequence 1, Appli
10	1001	100.0	9009	1	US-07-864-004B-3	Sequence 3, Appli
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12	1001	100.0	9009	1	US-08-212-133A-1	Sequence 1, Appli
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14	1001	100.0	9009	2	US-08-670-707A-1	Sequence 1, Appli
15	1001	100.0	9009	4	US-09-037-601-1	Sequence 1, Appli
16	1001	100.0	9009	4	US-09-315-179-1	Sequence 1, Appli
17	1001	100.0	9009	4	US-09-523-656-1	Sequence 1, Appli
18	1001	100.0	9009	5	PCT-US93-03275-3	Sequence 3, Appli
19	1001	100.0	9009	5	PCT-US94-13200-1	Sequence 1, Appli
20	1001	100.0	9354	1	US-08-683-839B-2	Sequence 2, Appli
21	1001	100.0	11933	4	US-09-470-618-13	Sequence 13, Appli
22	1001	100.0	11933	4	US-09-364-862-13	Sequence 13, Appli
23	999.4	99.8	8241	6	517184-4-1	Patent No. 517184
24	997.8	99.7	6999	1	US-08-276-594A-1	Sequence 1, Appli
25	843.2	84.2	7493	1	US-08-212-133A-7	Sequence 7, Appli
26	843.2	84.2	7493	1	US-08-474-503-5	Sequence 5, Appli
27	843.2	84.2	7493	2	US-08-670-707A-5	Sequence 5, Appli

28	843.2	84.2	7493	4	US-09-037-601-5	Sequence 5, Appl 11
29	843.2	84.2	7493	4	US-09-037-601-5	Sequence 5, Appl 11
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31	841.6	84.1	7493	5	PC#US94-13200-5	Sequence 5, Appl 11
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33	808.6	80.6	4334	2	US-08-670-707A-38	Sequence 38, Appl 1
34	808.6	80.6	4334	4	US-09-037-601-38	Sequence 38, Appl 1
35	808.6	80.6	4334	4	US-09-037-601-38	Sequence 38, Appl 1
36	808.8	80.8	4404	4	US-09-523-656-3	Sequence 36, Appl 1
37	808.8	80.8	6402	2	US-08-670-707A-36	Sequence 36, Appl 1
38	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
39	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
40	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
41	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
42	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
43	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl 1
44	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
45	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
46	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
47	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
48	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
49	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
50	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
51	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
52	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
53	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
54	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
55	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
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57	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
58	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
59	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
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62	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
63	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
64	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
65	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
66	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
67	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
68	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
69	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
70	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
71	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
72	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
73	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
74	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
75	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
76	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
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78	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
79	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
80	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
81	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
82	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
83	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
84	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
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86	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
87	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
88	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
89	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
90	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
91	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
92	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
93	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
94	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
95	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
96	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
97	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
98	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
99	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1
100	198.2	19.8	6509	2	US-08-658-340-1	Sequence 1, Appl 1

## ALIGNMENTS

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1 RESULT
2 US-08-484-891-7
3 : Sequence 7, Application US/08484891
4 : Patent No. 5935935
5 :
6 : GENERAL INFORMATION:
7 :
8 : APPLICANT: Connolly, Shella
9 : APPLICANT: Kaleko, Michael
10 : APPLICANT: Smith, Theodore
11 : TITLE OF INVENTION: Adenoviral Vectors for
12 : TITLE OF INVENTION: treatment of Hemophilia
13 :
14 : NUMBER OF SEQUENCES: 7
15 : CORRESPONDENCE ADDRESSES:
16 :
17 : ADDRESSEE: Carella, Byrne, Bain, Gilfillan,
18 : ADDRESSEE: Cecchi, Stewart & Olstein
19 : STREET: 6 Becker Farm Road
20 : CITY: Roseland
21 : STATE: New Jersey
22 : COUNTRY: USA
23 :
24 : ZIP: 07068
25 :
26 : COMPUTER READABLE FORM:
27 : MEDIUM TYPE: 3.5 inch diskette
28 : COMPUTER: IBM PS/2
29 : OPERATING SYSTEM: MS-DOS
30 : SOFTWARE: Wordperfect 5.1
31 :
32 : CURRENT APPLICATION DATA:
33 : APPLICATION NUMBER: US/08/484,891
34 : FILING DATE: 07-JUN-1995
35 : CLASSIFICATION: 514
36 :
37 : PRIOR APPLICATION DATA:
38 : APPLICATION NUMBER: 08/218,335
39 : FILING DATE: 25-MAR-1994
40 : APPLICATION NUMBER: 08/074,920
41 : FILING DATE: 10-JUN-1993
42 : ATTORNEY/AGENT INFORMATION:
43 : NAME: Olstein, Elliot M.
44 :
45 : REGISTRATION NUMBER: 24,025
46 : REFERENCE/DOCKET NUMBER: 211010-273
47 : TELECOMMUNICATION INFORMATION:
48 : TELEPHONE: 201-994-1744
49 : TELEFAX: 201-994-1744
50 : INFORMATION FOR SEQ ID NO: 7:
51 :
52 : SEQUENCE CHARACTERISTICS:
53 :
54 : LENGTH: 4629 bases
55 : TYPE: nucleic acid
56 : STRANDEDNESS: single
57 : TOPOLOGY: linear
58 : MOLECULE TYPE: cDNA primer
59 : FEATURE:
60 :
61 : NAME/KEY: Factor VIII cDNA with
62 : NAME/KEY: B domain deleted
63 :

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US-08-484-891-7

Query Match 100.0%; Score 1001; DB 2; Length 4629;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACGATGAAAACATTCATTC 60
DB 3227 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACGATGAAAACATTCATTC 3286
QY 61 ATTTCAGTGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 3287 ATTTCAGTGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3346
QY 121 ATCTATATCCAGTGTGTTTGAGACAGTGAATGTTTACATCCAAAGCTGGAATTTGGC 180
DB 3347 ATCTATATCCAGTGTGTTTGAGACAGTGAATGTTTACATCCAAAGCTGGAATTTGGC 3406
QY 181 GGGTGAATGCCCTTATTTGGGAGCATCTGATGCTGGATGAGACACTTTTCTGGTGT 240
DB 3407 GGGTGAATGCCCTTATTTGGGAGCATCTGATGCTGGATGAGACACTTTTCTGGTGT 3466
QY 241 ACAGCAATAGTGTGAGATCTCCCTGGGAATGCTTCTGAGACATTTAGATTTTTCAGA 300
DB 3467 ACAGCAATAGTGTGAGATCTCCCTGGGAATGCTTCTGAGACATTTAGATTTTTCAGA 3526
QY 301 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAAGCTGGCCAGACTTATTTTCGG 360
DB 3527 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAAGCTGGCCAGACTTATTTTCGG 3586
QY 361 GATCATATCAATGCTGAGACACCAAGAGCCCTTTCTTGGATCAAGTGGATCTGTTGG 420
DB 3587 GATCATATCAATGCTGAGACACCAAGAGCCCTTTCTTGGATCAAGTGGATCTGTTGG 3646
QY 421 CACCAATGATTTATTCACGCGCATCAAGACCCAGGTGCGGTGAGAGTTTCTGACCTCT 480
DB 3647 CACCAATGATTTATTCACGCGCATCAAGACCCAGGTGCGGTGAGAGTTTCTGACCTCT 3706
QY 481 ACATCTCTGATTTATTCATCATGATGATGCTGATGAGAGACAGTGGAGATTTTCAG 540
DB 3707 ACATCTCTGATTTATTCATCATGATGATGCTGATGAGAGACAGTGGAGATTTTCAG 3766
QY 541 GAAATTTCCACTGGAACCTTATGCTTCTTGGCAATGATGATCATCTGGGATTAAC 600
DB 3767 GAAATTTCCACTGGAACCTTATGCTTCTTGGCAATGATGATCATCTGGGATTAAC 3826
QY 601 ACAATATTTTAAACCTCCATTTATGCTGATACATCCGTTTGCACCAATCATTTATTA 660
DB 3827 ACAATATTTTAAACCTCCATTTATGCTGATACATCCGTTTGCACCAATCATTTATTA 3886
QY 661 GCATTCGACGACCTTTCGATGAGGATGATGCTGATGATTAATAATGTTGCAGCATGC 720
DB 3887 GCATTCGACGACCTTTCGATGAGGATGATGCTGATGATTAATAATGTTGCAGCATGC 3946
QY 721 CATTTGGAGATGAGAGTAAAGCAATATGATGACATGATGCTTCACTTCACTTCA 780
DB 3947 CATTTGGAGATGAGAGTAAAGCAATATGATGACATGATGCTTCACTTCACTTCA 4006
QY 781 CCAATATTTTGGCCACCTGCTCTTCAAAAAGCTCGACTTCACTTCACTTCACTTCA 840
DB 4007 CCAATATTTTGGCCACCTGCTCTTCAAAAAGCTCGACTTCACTTCACTTCACTTCA 4066
QY 841 ATGCTTGAAGACCTTGAATGATTAATCCAAAAGAGTGGCTCCAAAGTGCATTTCCAGA 900
DB 4067 ATGCTTGAAGACCTTGAATGATTAATCCAAAAGAGTGGCTCCAAAGTGCATTTCCAGA 4126
QY 901 CAATGAAGATGACAGAGTAACTACTGAGGAGTAAATCTCTGCTTACCGACGATGATG 960
DB 4127 CAATGAAGATGACAGAGTAACTACTGAGGAGTAAATCTCTGCTTACCGACGATGATG 4186
QY 961 TGAAGAGTTCCTCATCTCCAGACAGTCAAGATGGCCATCAG 1001
DB 4187 TGAAGAGTTCCTCATCTCCAGACAGTCAAGATGGCCATCAG 4227
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## RESULT 2

US-08-717-294-41

; Sequence 41, Application US/08717294

; Patent No. 6114148

; GENERAL INFORMATION:

; APPLICANT: SEED, BRIAN

; APPLICANT: HAAS, JURGEN

; TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF

; NUMBER OF SEQUENCES: 110

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Clark &amp; Elbing LLP

; STREET: 176 Federal Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: IBM Compatible

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/717,294

; FILING DATE: 20-SEP-1996

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Elbing, Karen L.

; REGISTRATION NUMBER: 35,238

; REFERENCE/DOCKET NUMBER: 00786/345001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-428-0200

; TELEFAX: 617-428-7045

; TELEX:

; INFORMATION FOR SEQ ID NO: 41:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4670 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-08-717-294-41

Query Match 100.0%; Score 1001; DB 3; Length 4670;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACGATGAAAACATTCATTC 60
DB 3253 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACGATGAAAACATTCATTC 3312
QY 61 ATTTCAGTGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 3313 ATTTCAGTGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3372
QY 121 ATCTATATCCAGTGTGTTTGAGACAGTGAATGTTTACATCCAAAGCTGGAATTTGGC 180
DB 3373 ATCTATATCCAGTGTGTTTGAGACAGTGAATGTTTACATCCAAAGCTGGAATTTGGC 3432
QY 181 GGGTGAATGCCCTTATTTGGGAGCATCTGATGCTGGATGAGACACTTTTCTGGTGT 240
DB 3433 GGGTGAATGCCCTTATTTGGGAGCATCTGATGCTGGATGAGACACTTTTCTGGTGT 3492
QY 241 ACAGCAATAGTGTGAGATCTCCCTGGGAATGCTTCTGAGACATTTAGAGATTTTTCAGA 300
DB 3493 ACAGCAATAGTGTGAGATCTCCCTGGGAATGCTTCTGAGACATTTAGAGATTTTTCAGA 3552
QY 301 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAAGCTGGCCAGACTTATTTTCGG 360
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Db 3553 TTACAGCTTCAGACAAATATGAGAGTGGGCCCAAAAGCTGGCCAGACTTATTTTCG 3612
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Db 3613 GATCATATATGCTGAGACCAAGAGAGCCCTTTCTTGATCAAGGTGATCTGTGG 3612
OY 421 CACCAATGATTTATGAGGATCAAGAGCCAGGTGCTGAGAACTTCCAGCTCT 480
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Db 3673 CACCAATGATTTATGAGGATCAAGAGCCAGGTGCTGAGAACTTCCAGCTCT 3732
OY 481 ACATCTCAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
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Db 3733 ACATCTCAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3792
OY 541 GAAATTCACAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
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Db 3793 GAAATTCACAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3852
OY 601 ACAATATTTTAACTTCAATTTATGCTGATGATGATGATGATGATGATGATGATGAT 660
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Db 3913 GCATTCGAGCACTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 3972
OY 721 CATTTGGATGAGAGTAAGCAATATGATGATGATGATGATGATGATGATGATGATGAT 780
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Db 3973 CATTTGGATGAGAGTAAGCAATATGATGATGATGATGATGATGATGATGATGATGAT 4032
OY 781 CCATATGTTTGGCCACTGCTGCTCTTCAAAAGCTGACTTACTTCCAAAGGAGAGTA 840
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Db 4033 CCATATGTTTGGCCACTGCTGCTCTTCAAAAGCTGACTTACTTCCAAAGGAGAGTA 4092
OY 841 ATGCCGAGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
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Db 4093 ATGCCGAGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4152
OY 901 CATGAAAGTCAAGAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 960
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Db 4153 CATGAAAGTCAAGAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 4212
OY 961 TGAAGAGTTCCTCATCTCCAGAGTCAAGATGGCCATCAG 1001
Db 4213 TGAAGAGTTCCTCATCTCCAGAGTCAAGATGGCCATCAG 4253

RESULT 3
US-09-470-618-14
; Sequence 14, Application US/09470618
; Patent No. 6200560
; GENERAL INFORMATION:
; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: Avigen 04082
; CURRENT APPLICATION NUMBER: US/09/470,618
; CURRENT FILING DATE: 1999-12-22
; EARLIER APPLICATION NUMBER: 09/364,862
; EARLIER FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/125,974
; EARLIER FILING DATE: 1999-03-24
; EARLIER APPLICATION NUMBER: 60/104,994
; EARLIER FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 4999
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-470-618-14
Query Match 100.0%; Score 1001; DB 4; Length 4999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ATCAAAGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 60
Db 3600 ATCAAAGATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3659
OY 61 ATTTCACTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 120
Db 3660 ATTTCACTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3719
OY 121 ATCTCTATCCAGAGCTTTTGGAGACAGTGGAAATGTTACCATCCAAAGCTGGAATTTGGC 180
Db 3720 ATCTCTATCCAGAGCTTTTGGAGACAGTGGAAATGTTACCATCCAAAGCTGGAATTTGGC 3779
OY 181 GGGTGGAAATGCTTATTTGGAGAGCATCTACATGCTGGAGTGGAGACACTTTTCTGGTGT 240
Db 3780 GGGTGGAAATGCTTATTTGGAGAGCATCTACATGCTGGAGTGGAGACACTTTTCTGGTGT 3839
OY 241 ACAGCAATTAAGTGTCAAGACTCCCTGGGAATGGCTTGTGAGACATTAGAGATTTTCAGA 300
Db 3840 ACAGCAATTAAGTGTCAAGACTCCCTGGGAATGGCTTGTGAGACATTAGAGATTTTCAGA 3899
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Db 3900 TTACAGCTTCAGGACATATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3959
OY 361 GATCAATCAATGCTGGAGACCAAGAGAGCCCTTTCTTGATCAAGGTGATCTGTGG 420
Db 3960 GATCAATCAATGCTGGAGACCAAGAGAGCCCTTTCTTGATCAAGGTGATCTGTGG 4019
OY 421 CACCAATGATTTATCAGGACATCAAGAGAGCCGCTGCTGAGAGTTCTCCAGCTCT 480
Db 4020 CACCAATGATTTATCAGGACATCAAGAGAGCCGCTGCTGAGAGTTCTCCAGCTCT 4079
OY 481 ACATCTCAGATTTATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Db 4080 ACATCTCAGATTTATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4139
OY 541 GAAATTCACAGTGAACCTTAATGCTCTTGTGCAATGATGATGATGATGATGATGATGATGAT 600
Db 4140 GAAATTCACAGTGAACCTTAATGCTCTTGTGCAATGATGATGATGATGATGATGATGATGAT 4199
OY 601 ACAATATTTTAACTTCAATTTATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 4200 ACAATATTTTAACTTCAATTTATGCTGATGATGATGATGATGATGATGATGATGATGATGAT 4259
OY 661 GCATTCGAGCACTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 4260 GCATTCGAGCACTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4319
OY 721 CATTTGGATGAGAGTAAGCAATATGATGATGATGATGATGATGATGATGATGATGATGAT 780
Db 4320 CATTTGGATGAGAGTAAGCAATATGATGATGATGATGATGATGATGATGATGATGATGAT 4379
OY 781 CCATATGTTTGGCCACTGCTGCTCTTCAAAAGCTGACTTACTTCCAAAGGAGAGTA 840
Db 4380 CCATATGTTTGGCCACTGCTGCTCTTCAAAAGCTGACTTACTTCCAAAGGAGAGTA 4439
OY 841 ATGCCGAGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db 4440 ATGCCGAGAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4499
OY 901 CATGAAAGTCAAGAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 960
Db 4500 CATGAAAGTCAAGAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 4559
OY 961 TGAAGAGTTCCTCATCTCCAGAGTCAAGATGGCCATCAG 1001

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Db 4560 TGAAGAGTTCCTCATCTCCAGCAGTCAAGATGGCCATCAG 4600

RESULT 4  
HE-00-364-863-14

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Sequence 14: Application US/09364862
Patent No. 6221349
GENERAL INFORMATION:
APPLICANT: Couto, Linda B.
APPLICANT: Colosi, Peter C.
TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII
TITLE OF INVENTION: BY TARGET
FILE REFERENCE: AVIGEN-03743
CURRENT APPLICATION NUMBER: US/09/364,862
CURRENT FILING DATE: 1999-07-30
EARLIER APPLICATION NUMBER: 60/125,974
EARLIER FILING DATE: 1999-03-24
EARLIER APPLICATION NUMBER: 60/104,994
EARLIER FILING DATE: 1998-10-20
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 14
LENGTH: 4999
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-364-862-14

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OY	601	ACAATATTTTAAACCCCTCCAAATTAATTCGTGTGATACACATCCGTTTGACCCCAACTCAATCAATTA	660
Db	4200	ACAATATTTTAAACCCCTCCAAATTAATTCGTGTGATACACATCCGTTTGACCCCAACTCAATTA	4255
OY	661	GCATTCGCAGCAGCTCTTCGCATGGAGTGTGATGGGCTGTGATTTAAATPAGTTTCAGCATATGC	720
Db	4260	GCATTCGCAGCAGCTCTTCGCATGGAGTGTGATGGGCTGTGATTTAAATPAGTTTCAGCATATGC	4315
OY	721	CATTGGGAATGGAGAGTAAGACAAATATCAGATCCACAGATTACTGCTTCATCTACTTTA	780
Db	4320	CATTGGGAATGGAGAGTAAGACAAATATCAGATCCACAGATTACTGCTTCATCTACTTTA	4379
OY	781	CCAAATATGTTTGGCCACCTGGCTGTCTTCAAAACCTGCACTTCACTCCCAAGGAGAGAGTA	840
Db	4380	CCAAATATGTTTGGCCACCTGGCTGTCTTCAAAACCTGCACTTCACTCCCAAGGAGAGAGTA	4439
OY	841	ATGCGCTGGAGACCTCAGAGTAATATATCCAAAAGTGGCTGCAAGTGAAGTCACTCCAGAGA	900
Db	4440	ATGCGCTGGAGACCTCAGAGTAATATATCCAAAAGTGGCTGCAAGTGAAGTCACTCCAGAGA	4499
OY	901	CAATGAAGAATCACAAGAGTAATCTACGAGGAGTAATAATCTCTGCTTACACAGCATGTATG	960
Db	4500	CAATGAAGAATCACAAGAGTAATCTACGAGGAGTAATAATCTCTGCTTACACAGCATGTATG	4559
OY	961	TGAAGGAGTTCCTCATCTCCAGCAGATCAAGATGGCCATCAG	1001
Db	4560	TGAAGGAGTTCCTCATCTCCAGCAGATCAAGATGGCCATCAG	4600

RESULT 5  
US-08-882-083-1

? Sequence 1, Application US/08882083  
? Patent No. 5869292  
? GENERAL INFORMATION:  
? APPLICANT: VOORBERG, Johannes J.  
? TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
? NUMBER OF SEQUENCES: 17  
? CORRESPONDENCE ADDRESS:  
? ADDRESSEE: Foley & Lardner  
? STREET: 3000 K Street, N.W., Suite 500  
? CITY: Washington  
? STATE: D.C.  
? COUNTRY: USA  
? ZIP: 20007-5109  
? COMPUTER READABLE FORM:  
? MEDIUM TYPE: Floppy disk  
? COMPUTER: IBM PC compatible  
? OPERATING SYSTEM: PC-DOS/MS-DOS  
? SOFTWARE: Patentin Release #1.0, Version #1.30  
? CURRENT APPLICATION DATA:  
? APPLICATION NUMBER: US/08/882,083  
? FILING DATE:  
? CLASSIFICATION: 514  
? PRIOR APPLICATION DATA:  
? APPLICATION NUMBER: US 08/558,107  
? FILING DATE: 13-NOV-1995  
? ATTORNEY/AGENT INFORMATION:  
? NAME: ISACSON, John P.  
? REGISTRATION NUMBER: 33,715  
? REFERENCE/DOCKET NUMBER: 30472/212  
? TELECOMMUNICATION INFORMATION:  
? TELEPHONE: (202)672-5300  
? TELEFAX: (202)672-5399  
? TELEX: 904136  
? INFORMATION FOR SEQ ID NO: 1:  
? SEQUENCE CHARACTERISTICS:  
? LENGTH: 5035 base pairs  
? TYPE: nucleic acid  
? STRANDEDNESS: single  
? TOPOLOGY: linear  
? FEATURE:  
? NAME/KEY: CDS

LOCATION: 35..5017  
us-08-882-083-1

Query Match 100.0%; Score 1001; DB 2; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCGATGATCTGCTGCTGAGCATGGGACACAAATGAAACATCATCTCTATTC 60  
DB 3831 ATCAAGATTCGATGATCTGCTGCTGAGCATGGGACACAAATGAAACATCATCTCTATTC 3890  
QY 61 ATTTCAAGTGAAGATGATGCTGCTGCTGAGCAAAAAAGAGATATAAATGAGCATGTACA 120  
DB 3891 ATTTCAAGTGAAGATGATGCTGCTGCTGAGCAAAAAAGAGATATAAATGAGCATGTACA 3950  
QY 121 ATCTCTATCCAGGTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 180  
DB 3951 ATCTCTATCCAGGTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 4010  
QY 181 GGGTGAATGCTTATTTGGGAGCATCTACATGCTGGATGAGCAGCTTTTCTGTGT 240  
DB 4011 GGGTGAATGCTTATTTGGGAGCATCTACATGCTGGATGAGCAGCTTTTCTGTGT 4070  
QY 241 ACAGCAATTAAGTGCAGACTCCCTGGGAATGGCTTGGACACATTAAGATTTTCAGA 300  
DB 4071 ACAGCAATTAAGTGCAGACTCCCTGGGAATGGCTTGGACACATTAAGATTTTCAGA 4130  
QY 301 TTACAGCTTCAGGACATATGAGAGTGGGCCCCAAAGCTGGCCAGCTTATTTCCG 360  
DB 4131 TTACAGCTTCAGGACATATGAGAGTGGGCCCCAAAGCTGGCCAGCTTATTTCCG 4190  
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DB 4191 GATCAATCAATGCTGGAGACCAAGAGGCCCTTTCTTGATCAAGTGGATCTGTGG 4250  
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DB 4251 CACCAATGATTTATTCAGGACCAAGAGGCCCTTTCTTGATCAAGTGGATCTGTGG 4310  
QY 481 ACATCTCTGAGTTATCATGATGATGCTGCTGATGGAAGAGTGGACACATTAAGAG 540  
DB 4311 ACATCTCTGAGTTATCATGATGATGCTGCTGATGGAAGAGTGGACACATTAAGAG 4370  
QY 541 GAATTCACATGAGAACCTTAATGCTTCTTTGGCAATGATGATCTGATGGAATAAAG 600  
DB 4371 GAATTCACATGAGAACCTTAATGCTTCTTTGGCAATGATGATCTGATGGAATAAAG 4430  
QY 601 ACAATATTTTAACTTCACATTAATGCTGATGATGATGCTGATGGAATAAAG 660  
DB 4431 ACAATATTTTAACTTCACATTAATGCTGATGATGATGCTGATGGAATAAAG 4490  
QY 661 GCATTCGACAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720  
DB 4491 GCATTCGACAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 4550  
QY 721 CATTGGAATGAGAGTAAAGCAATATCAGATGACAGATGATGATGATGATGATGATGATG 780  
DB 4551 CATTGGAATGAGAGTAAAGCAATATCAGATGACAGATGATGATGATGATGATGATGATG 4610  
QY 781 CCAATATGTTTGGCAGCTGCTCTCTCAAAAGCTGACATTCACCTCAAGAGAGAGTA 840  
DB 4611 CCAATATGTTTGGCAGCTGCTCTCTCAAAAGCTGACATTCACCTCAAGAGAGAGTA 4670  
QY 841 ATGCTGAGAGCTCAGGTGAATATCAAAAGAGTGGGCAAGTGGGCAATTCACAGAGA 900  
DB 4671 ATGCTGAGAGCTCAGGTGAATATCAAAAGAGTGGGCAAGTGGGCAATTCACAGAGA 4730  
QY 901 CAATGAAGTGCAGAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 960  
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DB 4791 TGAAGAGATTCATCTCCAGCAGTCAAGATGGCCATCAG 4831

DB 4791 TGAAGAGATTCATCTCCAGCAGTCAAGATGGCCATCAG 4831

RESULT 6

US-08-558-107-1  
Sequence 1, Application US/08558107  
Patent No. 5910481

GENERAL INFORMATION:

APPLICANT: VOORBERG, Johannes J.  
TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/558,107  
FILING DATE: 13-NOV-1995  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 5035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

FEATURE:

NAME/KEY: CDS  
LOCATION: 35..5017  
US-08-558-107-1

Query Match 100.0%; Score 1001; DB 2; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCGATGATCTGCTGCTGAGCATGGGACACAAATGAAACATCATCTCTATTC 60  
DB 3831 ATCAAGATTCGATGATCTGCTGCTGAGCATGGGACACAAATGAAACATCATCTCTATTC 3890  
QY 61 ATTTCAAGTGAAGATGATGCTGCTGCTGAGCAAAAAAGAGATATAAATGAGCATGTACA 120  
DB 3891 ATTTCAAGTGAAGATGATGCTGCTGCTGAGCAAAAAAGAGATATAAATGAGCATGTACA 3950  
QY 121 ATCTCTATCCAGGTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 180  
DB 3951 ATCTCTATCCAGGTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 4010  
QY 181 GGGTGAATGCTTATTTGGGAGCATCTACATGCTGGATGAGCAGCTTTTCTGTGT 240  
DB 4011 GGGTGAATGCTTATTTGGGAGCATCTACATGCTGGATGAGCAGCTTTTCTGTGT 4070  
QY 241 ACAGCAATTAAGTGCAGACTCCCTGGGAATGGCTTGGACACATTAAGATTTTCAGA 300  
DB 4071 ACAGCAATTAAGTGCAGACTCCCTGGGAATGGCTTGGACACATTAAGATTTTCAGA 4130  
QY 301 TTACAGCTTCAGGACATATGAGAGTGGGCCCCAAAGCTGGCCAGCTTATTTCCG 360  
DB 4131 TTACAGCTTCAGGACATATGAGAGTGGGCCCCAAAGCTGGCCAGCTTATTTCCG 4190

361 GATCAATCAATGCGTGGAGGACCAAGAGCCCTTTCTTGATCAAGGTGATCTGTTGG 420  
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4191 GATCAATCAATGCGTGGAGGACCAAGAGCCCTTTCTTGATCAAGGTGATCTGTTGG 4250  
421 CACCAATGATTATTCACGGGATCAAGAGCCCGGCTGAGAGTTCTCCAGCCCTC 480  
4251 CACCAATGATTATTCACGGGATCAAGAGCCCGGCTGAGAGTTCTCCAGCCCTC 4310  
481 ACATCTCTCAGTTTAT 540  
4311 ACATCTCTCAGTTTAT 4370  
541 GAAATTCACCTGGAACTTATATATATATATATATATATATATATATATATATATAT 600  
4371 GAAATTCACCTGGAACTTATATATATATATATATATATATATATATATATATATAT 4430  
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4431 ACAATATTTTAAACCTTCAATATATATATATATATATATATATATATATATATATAT 4490  
661 GCATTCGACACTCTTTCGATGAGTGTGATGAGTGTGATGAGTGTGATGAGTGTGATG 720  
4491 GCATTCGACACTCTTTCGATGAGTGTGATGAGTGTGATGAGTGTGATGAGTGTGATG 4550  
721 CATGGGAATGAGAGTAAGCAATATATATATATATATATATATATATATATATATATAT 780  
4551 CATGGGAATGAGAGTAAGCAATATATATATATATATATATATATATATATATATATAT 4610  
781 CCAATATGTTTGGACCTGCTGCTTCAAAAGCTGACCTTCAACCTCAAGAGGAGAGTA 840  
4611 CCAATATGTTTGGACCTGCTGCTTCAAAAGCTGACCTTCAACCTCAAGAGGAGAGTA 4670  
841 ATGCTTGGAACTCTGAGTGAATATATATATATATATATATATATATATATATATATAT 900  
4671 ATGCTTGGAACTCTGAGTGAATATATATATATATATATATATATATATATATATATAT 4730  
901 CAATGAAGTACAGAGAGTAACTACTCAGGAGTAAATCTGCTTACAGCATATATATAT 960  
4731 CAATGAAGTACAGAGAGTAACTACTCAGGAGTAAATCTGCTTACAGCATATATATATAT 4790  
961 TGAAGGAGTCTCATCTCAGAGAGTCAAGATGAGCATATATATATATATATATATATAT 1001  
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RESULT 7  
US-09-243-539-1  
; Sequence 1, Application US/09243539  
; Patent No. 6130203  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/243,539  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558,107  
; FILING DATE: 13-NOV-1995

ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33,715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5035 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 35..5017  
; US-09-243-539-1  
Query Match 100.0%; Score 1001; DB 3; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 ATCAAGATTCGATGATCTGCTCAGCATGGCAGCAATGAAACATCCATTCTATTC 60  
3831 ATCAAGATTCGATGATCTGCTCAGCATGGCAGCAATGAAACATCCATTCTATTC 3890  
61 ATTTCAGTGCATGTTCTACTGTACGAAAAAGAGAGTATTAATGGCAGCTTACA 120  
3891 ATTTCAGTGCATGTTCTACTGTACGAAAAAGAGAGTATTAATGGCAGCTTACA 3950  
121 ATCTCATCCAGTGTGTTTGGAGACGTGGAATGTACATCCAAAGCTGGAATTTGGC 180  
3951 ATCTCATCCAGTGTGTTTGGAGACGTGGAATGTACATCCAAAGCTGGAATTTGGC 4010  
181 GGGTGAATGCTTATTTGGCGAGCATCTACATGCTGGAGTACACACTTTTCTGTGT 240  
4011 GGGTGAATGCTTATTTGGCGAGCATCTACATGCTGGAGTACACACTTTTCTGTGT 4070  
241 ACAGCAATTAAGTGTAGAGTCCCTGGGAATGGCTTCTGACACATTTAGATTTTACA 300  
4071 ACAGCAATTAAGTGTAGAGTCCCTGGGAATGGCTTCTGACACATTTAGATTTTACA 4130  
301 TTACAGCTTCAGGAATATATGAGCAGTGGGCCCAAACTGGCAGACTTATTATTCG 360  
4131 TTACAGCTTCAGGAATATATGAGCAGTGGGCCCAAACTGGCAGACTTATTATTCG 4190  
361 GATCAATCAATGCGTGGAGGACCAAGAGCCCTTTCTTGATCAAGGTGATCTGTTGG 420  
4191 GATCAATCAATGCGTGGAGGACCAAGAGCCCTTTCTTGATCAAGGTGATCTGTTGG 4250  
421 CACCAATGATTATTCACGGGATCAAGAGCCCGGCTGAGAGTTCTCCAGCCCTC 480  
4251 CACCAATGATTATTCACGGGATCAAGAGCCCGGCTGAGAGTTCTCCAGCCCTC 4310  
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4311 ACATCTCTCAGTTTAT 4370  
541 GAAATTCACCTGGAACTTAT 600  
4371 GAAATTCACCTGGAACTTAT 4430  
601 ACAATATTTTAAACCTTCAAT 660  
4431 ACAATATTTTAAACCTTCAAT 4490  
661 GCATTCGACACTCTTTCGATGAGTGTGATGAGTGTGATGAGTGTGATGAGTGTGATG 720  
4491 GCATTCGACACTCTTTCGATGAGTGTGATGAGTGTGATGAGTGTGATGAGTGTGATG 4550  
721 CATGGGAATGAGAGTAAGCAAT 780  
|||||



APPLICANT: De Polo, Nicolas J.  
 APPLICANT: Hsu, David Chi-Tang  
 APPLICANT: Chang, Steven  
 TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII  
 NUMBER OF SEQUENCES: 3  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Viagene, Inc.  
 STREET: 11055 Roselle Street  
 CITY: San Diego  
 STATE: California  
 COUNTRY: U.S.A.  
 ZIP: 92121  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/366, 851A  
 FILING DATE:  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Chambers, Daniel M.  
 REGISTRATION NUMBER: 34,561  
 REFERENCE/DOCKET NUMBER: 930049.438  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 452-1288  
 TELEFAX: (619) 452-2616  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 8967 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: unknown  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 110..7165  
 US-08-366-851A-1

Query Match 100.0%; Score 1001; DB 1; Length 8967;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1001: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 5976 ATCAAGAGATTCGATGATCTGCTCAGCATGGGAGGAGCAATGAACATTCATCTATTC 6035  
 QY 61 ATTGAGGAGCATGTGTTCACCTGACGACAAAAAGAGAGATTAATAATGGCACTGTACA 120  
 DB 6036 ATTGAGGAGCATGTGTTCACCTGACGACAAAAAGAGAGATTAATAATGGCACTGTACA 6095  
 QY 121 ATCTATTCAGAGGTGTTTGTGAGCAGAGTGAATGTACATCCAAAGCTGGAATTTGGC 180  
 DB 6096 ATCTATTCAGAGGTGTTTGTGAGCAGAGTGAATGTACATCCAAAGCTGGAATTTGGC 6155  
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 DB 6156 GGGTGAATGCCCTTATTTGGGAGCATCTACATGCTGGGATGAGACACTTTTCTGTGT 6215  
 QY 241 ACAGCAATAATGTGACAGCTCCCTGGGAATGGCTTCTGGACACATTAAGATTTTACA 300  
 DB 6216 ACAGCAATAATGTGACAGCTCCCTGGGAATGGCTTCTGGACACATTAAGATTTTACA 6275  
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 QY 361 GATCAATCAATGCTTGAGAGCAACAGAGCCCTTTTCTTGATCAAGGTGATCTGTGG 420  
 DB 6336 GATCAATCAATGCTTGAGAGCAACAGAGCCCTTTTCTTGATCAAGGTGATCTGTGG 6395  
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DB 6396 CACCAATATATTATTCAGGCGCATCAAGACCCAGGGTGCCCGGACAGAAATTTCTCCAGCCTCT 6455  
 QY 481 ACATCTCTCACTTATATCATATGATATAGCTTGTATGGGAAGAGTGCAGACTTATTCAG 540  
 DB 6456 ACATCTCTCACTTATATCATATGATATAGCTTGTATGGGAAGAGTGCAGACTTATTCAG 6515  
 QY 541 GAAATTCACAGTGAACCTTATATGCTCTTCTTGGCATATGATGATTCATCTGGATTAAC 600  
 DB 6516 GAAATTCACAGTGAACCTTATATGCTCTTCTTGGCATATGATGATTCATCTGGATTAAC 6575  
 QY 601 ACAATATTTTAAACCTTCATATATGCTGATATCATCCGTTTGCACCCCAACTCATATA 660  
 DB 6576 ACAATATTTTAAACCTTCATATATGCTGATATCATCCGTTTGCACCCCAACTCATATA 6635  
 QY 661 GCATTCGACAGCATCTTGTGATGAGTTGATGGGCTGTGATTAATAATGTTGACAGATGC 720  
 DB 6636 GCATTCGACAGCATCTTGTGATGAGTTGATGGGCTGTGATTAATAATGTTGACAGATGC 6695  
 QY 721 CATGGGAGATGAGAGTAAGCATATCATATGATGATGATGATGATGATGATGATGATGAT 780  
 DB 6696 CATGGGAGATGAGAGTAAGCATATCATATGATGATGATGATGATGATGATGATGATGAT 6755  
 QY 781 CCAATATGTTTGGCCACCTGCTCTCTTCAAAAGCTGCACCTTCACTTCAAGGAGAGTA 840  
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 QY 961 TGAAGAGTTCCTCATCTCCAGCAGTCAGATGAGGATGATGATGATGATGATGATGATGAT 1001  
 DB 6936 TGAAGAGTTCCTCATCTCCAGCAGTCAGATGAGGATGATGATGATGATGATGATGATGAT 6976

RESULT 10

US-07-864-004B-3

; Sequence 3, Application US/07864004B

; Patent No. 5364771

; GENERAL INFORMATION:

; APPLICANT: Lollar, John S.

; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII

; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Kilpatrick & Cody

; STREET: 1100 Peachtree Street

; CITY: Atlanta

; STATE: Georgia

; COUNTRY: US

; ZIP: 30309

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/864, 004B

; FILING DATE: 07 APRIL 1992

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Pabst, Patrea L.

; REGISTRATION NUMBER: 31,284

; REFERENCE/DOCKET NUMBER: EMU106

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 404-815-6508

; TELEFAX: 404-815-6555

; INFORMATION FOR SEQ ID NO: 3:

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SEQUENCE CHARACTERISTICS:
LENGTH: 9009 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapien
TISSUE TYPE: Liver
FEATURE:
NAME/KEY: misc_feature (Domain Structure)
LOCATION: 5001..7053
OTHER INFORMATION: /note="Equivalent to the A3-C1-C2"
OTHER INFORMATION: domain"
FEATURE:
NAME/KEY: misc_feature (Domain Structure)
LOCATION: 1..2277
OTHER INFORMATION: /note="Equivalent to the A1-A2"
OTHER INFORMATION: domain"
US-07-864-004B-3

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Query Match          100.0%; Score 1001; DB 1; Length 9009;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCAAGATTCGATGATCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 60
DB 6017 ATCAAGATTCGATGATCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6076
QY 61 ATTTCAGGACATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 120
DB 6077 ATTTCAGGACATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6136
QY 121 ATCTCATCCAGGATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 180
DB 6137 ATCTCATCCAGGATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6196
QY 181 GGGTGAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 240
DB 6197 GGGTGAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6256
QY 241 ACAGAAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 300
DB 6257 ACAGAAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6316
QY 301 TTACAGCTTCAGGACATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 360
DB 6317 TTACAGCTTCAGGACATGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6376
QY 361 GATCAATCAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 420
DB 6377 GATCAATCAATGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6436
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DB 6437 CACCAATGCTGCTGCTGCTCAGCATGGCGAGCAATGAAACATCCATTCTATTC 6496
QY 481 ACATCTCAGTTCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
DB 6497 ACATCTCAGTTCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 6556
QY 541 GAAATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 6557 GAAATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 6616
QY 601 ACAATATTTTAAACCTCAATTTATGCTGATATCATCCGTTTGCACCACTATTATA 660
DB 6617 ACAATATTTTAAACCTCAATTTATGCTGATATCATCCGTTTGCACCACTATTATA 6676
QY 661 GCATTCGACGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720

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QY 841 ATGCTGAGAGCTCAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
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RESULT 11
US-08-251-937A-3
; Sequence 3, Application US/08251937A
; Patent No. 5583209
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kilpatrick & Cody
; STREET: 1100 Peachtree Street
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: US
; ZIP: 30309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/251,937A
; FILING DATE: 31-May-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/864,004
; FILING DATE: 07-Apr-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Pratt, John S.
; REGISTRATION NUMBER: 29,476
; REFERENCE/DOCKET NUMBER: EMU106DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 404-815-6367
; TELEFAX: 404-815-6555
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9009 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapien
; TISSUE TYPE: Liver
; FEATURE:

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NAME/KEY: misc-feature (Domain Structure)  
LOCATION: 5001 . . . 7053  
OTHER INFORMATION: /note="Equivalent to the A3-C1-C2  
OTHER INFORMATION: domain"  
FEATURE:  
NAME/KEY: misc-feature (Domain Structure)  
LOCATION: 1 . . . 2277  
OTHER INFORMATION: /note="Equivalent to the A1-A2  
OTHER INFORMATION: domain"  
US-08-251-937A-3

Query Match 100.0%; Score 1001; DB 1; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCAGTGTATCTCTCAGATGGGAGCAATGGAATCCATTCATTC 60  
DB 6017 ATCAAGATTCAGTGTATCTCTCAGATGGGAGCAATGGAATCCATTCATTC 6076  
QY 61 ATTCAGTGGACATGTTCTACGTACGAAAAAAGAGAGATATAAATGGCACTGTACA 120  
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US-08-212-133A-1  
Sequence 1, Application US/08212133A  
Patent No. 563060  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
APPLICANT: Runge, Marschall S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 100 Peachtree Street  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/212.133A  
FILING DATE: March 11, 1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Pabst, Patrea L.  
REGISTRATION NUMBER: 31,284  
REFERENCE/DOCKET NUMBER: EMU/76677  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-572-6508  
TELEFAX: 404-572-6555  
INFORMATION FOR SEQ. ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9009 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver  
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LOCATION: 1 . . . 2277  
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US-08-212-133A-1





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## RESULT 14

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; Patent No. 5859204
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle Suite 201
; CITY: Boulder
; STATE: Colorado

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; COUNTRY: USA
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/670,707A
; FILING DATE: 26-JUN-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US94/13200
; FILING DATE: 15-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/212,133
; FILING DATE: 11-MAR-1994
; APPLICATION NUMBER: US 07/864,004
; FILING DATE: 07-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Greenlee, Lorance L.
; REGISTRATION NUMBER: 27,894
; REFERENCE/DOCKET NUMBER: 75-95F
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/499-8080
; TELEFAX: 303/499-8089
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9009 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: not relevant
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Liver
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 1..2277
; OTHER INFORMATION: /product= "Domain Structure"
; OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain"
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; NAME/KEY: misc-feature
; LOCATION: 1..2277
; OTHER INFORMATION: /product= "Domain"
; OTHER INFORMATION: /note= "CDNA encoding human factorVIII"
; US-08-670-707A-1
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RESULT 15  
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Patent No. 6180371  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
STREET: 5370 Manhattan Circle Suite 201  
CITY: Boulder  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,601
FILING DATE: 26-JUN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US94/13200
FILING DATE: 15-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,133
FILING DATE: 11-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/864,004
FILING DATE: 07-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 75-95F
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303/499-8080
TELEFAX: 303/499-8089
INFORMATION FOR SEQ. ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9009 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: not relevant
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Liver
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NAME/KEY: misc.feature
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OTHER INFORMATION: /note= "cDNA encoding human factorVIII"
US-09-037-601-1
Query Match 100.0%; Score 1001; DB 4; Length 9009;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 6197 GGGTGAATGCTTATTTGGGAGCATCTACATGCTGGGATGAGACACTTTTCTGGTGT 6256
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4	1001	100.0	7944	12 US-10-095-718-1	Sequence 1, Appl
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6	1001	100.0	11933	9 US-10-007-968-13	Sequence 13, Appl
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29	46.4	4.6	600	10 US-09-833-381-636	Sequence 636, App
30	42.4	4.2	3700	10 US-09-911-800A-1539	Sequence 1539, Ap
31	39.4	3.9	476	10 US-09-833-381-1488	Sequence 1488, Ap
32	39.4	3.9	1329	10 US-09-808-701-5	Sequence 5, Appl
33	38.6	3.9	45	9 US-09-957-641-10	Sequence 10, Appl
34	38.6	3.9	45	9 US-09-957-641-18	Sequence 18, Appl
35	37.6	3.8	519	9 US-09-736-457-1255	Sequence 1255, Ap
36	37.6	3.8	519	9 US-09-736-457-1255	Sequence 1255, Ap
37	37.6	3.8	519	9 US-09-902-941-1255	Sequence 1255, Ap
38	37.6	3.8	519	9 US-09-902-941-1255	Sequence 1255, Ap
39	37.6	3.8	519	9 US-09-849-626-1255	Sequence 1255, Ap
40	37.6	3.8	519	9 US-09-849-626-1255	Sequence 1255, Ap
41	37.4	3.7	39	9 US-09-957-641-5	Sequence 4, Appl
42	37.4	3.7	39	9 US-09-957-641-12	Sequence 5, Appl
43	37.4	3.7	39	9 US-09-957-641-12	Sequence 12, Appl
44	37.4	3.7	39	9 US-09-957-641-13	Sequence 13, Appl
45	36.6	3.7	8907	9 US-09-738-626-934	Sequence 934, App

## ALIGNMENTS

RESULT 1  
US-09-150-811-7

GENERAL INFORMATION:  
APPLICANT: Connelly, Sheila  
Kaleko, Michael

TITLE OF INVENTION: Adenoviral Vectors for

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSEE: Carella, Byrne, Bain, Gilfillan,

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: New Jersey

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch diskette

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/150, 811

FILING DATE: 10-Sep-1998

CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/484, 891

FILING DATE: 07-JUN-1995

APPLICATION NUMBER: 08/218, 335

FILING DATE: 25-MAR-1994

APPLICATION NUMBER: 08/074, 920

FILING DATE: 10-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Olstein, Elliot M.

REGISTRATION NUMBER: 24,025

REFERENCE/DOCKET NUMBER: 271010-440

TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700

TELEFAX: 973-994-1744

SEQUENCE DESCRIPTION: SEQ ID NO: 7:

US-09-150-811-7

Query Match 100.0% Score 1001; DB 10; Length 4629;

Best Local Similarity 100.0%; Pred. No. 4.7e-295;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCAAGGATTCATGCTATCTGCTCAGACATGGGCGACGATGAACATCCATTCATTC 60
  |||
Db 3227 ATCAAGGATTCATGCTATCTGCTCAGACATGGGCGACGATGAACATCCATTCATTC 3286
QY 61 ATTCAGTGCACATGCTTCTCTGCTACGAAAAAAGAGAGATTAATAATGGCACTGACA 120
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Db 3287 ATTCAGTGCACATGCTTCTCTGCTACGAAAAAAGAGAGATTAATAATGGCACTGACA 3346
QY 121 ATCTCATCCAGCTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 180
  |||
Db 3347 ATCTCATCCAGCTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 3406
QY 181 GGGTGGATGCCCTTATTTGGGAGACATCTACATGCTGGGAGTGAAGCAGCTTTTGGTGT 240
  |||
Db 3407 GGGTGGATGCCCTTATTTGGGAGACATCTACATGCTGGGAGTGAAGCAGCTTTTGGTGT 3466
QY 241 ACAGCAATAGTGTCAAGCTCCCTGGGAATGGCTTCTGACACATTTAGATTTTCAGA 300
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Db 3467 ACAGCAATAGTGTCAAGCTCCCTGGGAATGGCTTCTGACACATTTAGATTTTCAGA 3526
QY 301 TTACAGCTTCAGACAAATTTGACAGTGGGCCCAAGCTGGCCAGACTTCATTTATCCG 360
  |||
Db 3527 TTACAGCTTCAGACAAATTTGACAGTGGGCCCAAGCTGGCCAGACTTCATTTATCCG 3586
QY 361 GATCAATCAATGCTGTCAGACACCAAGGAGCCCTTTCTTGGATGCAAGTGGATGCTTTGG 420
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Db 3587 GATCAATCAATGCTGTCAGACACCAAGGAGCCCTTTCTTGGATGCAAGTGGATGCTTTGG 3646
QY 421 CACCAATGATTTATTCAGGSCATCAAGCCAGGGTCCCGTCAGAGATTTCTCCAGCTCT 480
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Db 3647 CACCAATGATTTATTCAGGSCATCAAGCCAGGGTCCCGTCAGAGATTTCTCCAGCTCT 3706
QY 481 ACATCTCTAGTTTATCATCATGTATAGTCTGATGGGAAGAGTGGCACTTATTCGAG 540
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Db 3707 ACATCTCTAGTTTATCATCATGTATAGTCTGATGGGAAGAGTGGCACTTATTCGAG 3766
QY 541 GAAATTCACACTGGAACCTTATGATGCTTCTTTGGCAATGTGGATTCATCTGGATTAAC 600
  |||
Db 3767 GAAATTCACACTGGAACCTTATGATGCTTCTTTGGCAATGTGGATTCATCTGGATTAAC 3826
QY 601 ACAATATTTTAACTTCAATTTATGCTCGATACATCCGTTTGCACCACTCATTTATA 660
  |||
Db 3827 ACAATATTTTAACTTCAATTTATGCTCGATACATCCGTTTGCACCACTCATTTATA 3886
QY 661 GCATTGCGACACTCTTGGCATGAGTGAATGGGCTGATTAATAGTTGCACCACTGC 720
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Db 3887 GCATTGCGACACTCTTGGCATGAGTGAATGGGCTGATTAATAGTTGCACCACTGC 3946
QY 721 CATTTGGGAATGAGAGTAAAGCAATATCAGATGACAGATTAAGTCTTCACTTACTTTA 780
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Db 3947 CATTTGGGAATGAGAGTAAAGCAATATCAGATGACAGATTAAGTCTTCACTTACTTTA 4006
QY 781 CCAATATGTTGGCCACCTGCTCTCTTCAAAAAGCTCGACTTCACTCTCCAAAGGAGAGTA 840
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Db 4007 CCAATATGTTGGCCACCTGCTCTCTTCAAAAAGCTCGACTTCACTCTCCAAAGGAGAGTA 4066
QY 841 ATGCTTGAGACCTTCAGTGAATATCCAAAAGAGTGGCTCAAGTGCATTTCCAGAGA 900
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Db 4067 ATGCTTGAGACCTTCAGTGAATATCCAAAAGAGTGGCTCAAGTGCATTTCCAGAGA 4126
QY 901 CAATGAAGTCAAGAGATTAATCTACTCAGGAGTAAATCTCTGCTTCCAGCATGTATG 960
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Db 4127 CAATGAAGTCAAGAGATTAATCTACTCAGGAGTAAATCTCTGCTTCCAGCATGTATG 4186
QY 961 TGAAGAGTTCCTCATCTCCAGAGTCAAGATGGCCATCAG 1001
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Db 4187 TGAAGAGTTCCTCATCTCCAGAGTCAAGATGGCCATCAG 4227
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RESULT 2

US-10-007-968-14  
; Sequence 14, Application US/10007968  
; Patent No. US2002015997A1  
; GENERAL INFORMATION:  
; APPLICANT: Coulo, Linda B.  
; APPLICANT: Coulo, Peter C.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; FILE REFERENCE: Aviden-04082  
; CURRENT APPLICATION NUMBER: US/10/007,968  
; PRIOR FILING DATE: 2001-12-13  
; PRIOR APPLICATION NUMBER: 09/7740,211  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: 60/125,974  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104,994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 4999  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-14

Query Match 100.0%; Score 1001; DB 9; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 4.9e-295;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATCAAGGATTCATGCTATCTGCTCAGACATGGGCGACGATGAACATCCATTCATTC 60
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Db 3600 ATCAAGGATTCATGCTATCTGCTCAGACATGGGCGACGATGAACATCCATTCATTC 3659
QY 61 ATTCAGTGCACATGCTTCTCTGCTACGAAAAAAGAGAGATTAATAATGGCACTGACA 120
  |||
Db 3660 ATTCAGTGCACATGCTTCTCTGCTACGAAAAAAGAGAGATTAATAATGGCACTGACA 3719
QY 121 ATCTCATCCAGCTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 180
  |||
Db 3720 ATCTCATCCAGCTGTTTTGAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 3779
QY 181 GGGTGGATGCCCTTATTTGGGAGACATCTACATGCTGGAGTGAAGCAGCTTTTGGTGT 240
  |||
Db 3780 GGGTGGATGCCCTTATTTGGGAGACATCTACATGCTGGAGTGAAGCAGCTTTTGGTGT 3839
QY 241 ACAGCAATAGTGTCAAGCTCCCTGGGAATGGCTTCTGACACATTTAGATTTTCAGA 300
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Db 3840 ACAGCAATAGTGTCAAGCTCCCTGGGAATGGCTTCTGACACATTTAGATTTTCAGA 3899
QY 301 TTACAGCTTCAGACAAATTTGACAGTGGGCCCAAGCTGGCCAGACTTCATTTATCCG 360
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Db 3900 TTACAGCTTCAGACAAATTTGACAGTGGGCCCAAGCTGGCCAGACTTCATTTATCCG 3959
QY 361 GATCAATCAATGCTTCAAGTGAAGGAGCCCTTTCTTGGATCAAGTGGATCTGTTGG 420
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Db 3960 GATCAATCAATGCTTCAAGTGAAGGAGCCCTTTCTTGGATCAAGTGGATCTGTTGG 4019
QY 421 CACCAATGATTTATTCAGGSCATCAAGCCAGGGTCCCGTCAGAGATTTCTCCAGCTCT 480
  |||
Db 4020 CACCAATGATTTATTCAGGSCATCAAGCCAGGGTCCCGTCAGAGATTTCTCCAGCTCT 4079
QY 481 ACATCTCTAGTTTATCATCATGTATAGTCTGATGGGAAGAGTGGAGACTTATTCGAG 540
  |||
Db 4080 ACATCTCTAGTTTATCATCATGTATAGTCTGATGGGAAGAGTGGAGACTTATTCGAG 4139
QY 541 GAAATTCACACTGGAACCTTATGATGCTTCTTTGGCAATGTGGATTCATCTGGATTAAC 600
  |||
Db 4140 GAAATTCACACTGGAACCTTATGATGCTTCTTTGGCAATGTGGATTCATCTGGATTAAC 4199
QY 601 ACAATATTTTAACTTCAATTTATGCTCGATACATCCGTTTGCACCACTCATTTATA 660
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Db 4200 ACAATATTTTAAACCTCCATTAATGTGCTGATACATCCGTTTGACCCCAACTATTATA 4259  
 Qy 661 GCATTGCGAGACCTCTTCGATGAGATGATGGCTGTGATTAATAGTTGACATGC 720  
 Db 4260 GCATTGCGAGACCTCTTCGATGAGATGATGGCTGTGATTAATAGTTGACATGC 4319  
 Qy 721 CATGGGAATGAGAGTAAGCAATATCAGATGACAGATATGACGCTTCAATCCAGTTTA 780  
 Db 4320 CATGGGAATGAGAGTAAGCAATATCAGATGACAGATATGACGCTTCAATCCAGTTTA 4379  
 Qy 781 CCAATATTTTGGACACCTGCTCTCCCTTCMAAAGCTCGACTTCACCTCCAGAGAGAGTA 840  
 Db 4380 CCAATATTTTGGACACCTGCTCTCCCTTCMAAAGCTCGACTTCACCTCCAGAGAGTA 4439  
 Qy 841 ATGCTGAGACCTCAGTGTGATTAATCCAAAGAGTGGCTCAAGTGGACTTCCAGAGA 900  
 Db 4440 ATGCTGAGACCTCAGTGTGATTAATCCAAAGAGTGGCTCAAGTGGACTTCCAGAGA 4499  
 Qy 901 CAATGAAGTCAAGAGTAACTACTGAGGAGTAATCTGCTTACAGCATGATG 960  
 Db 4500 CAATGAAGTCAAGAGTAACTACTGAGGAGTAATCTGCTTACAGCATGATG 4559  
 Qy 961 TGAAGAGTCTCTCATCTCCAGCAGTCAAGATGGCCATCAG 1001  
 Db 4560 TGAAGAGTCTCTCATCTCCAGCAGTCAAGATGGCCATCAG 4600

RESULT 3

US-09-740-211-14  
 : Sequence 14, Application US/09740211  
 : Patent No. US20010010815A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Couto, Linda B.  
 : APPLICANT: Colosi, Peter C.  
 : TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
 : FILE REFERENCE: Avigen-04082  
 : CURRENT APPLICATION NUMBER: US/09/740,211  
 : PRIOR FILING DATE: 2000-12-18  
 : PRIOR APPLICATION NUMBER: 09/470,618  
 : PRIOR FILING DATE: 1999-12-22  
 : PRIOR APPLICATION NUMBER: 60/125,974  
 : PRIOR FILING DATE: 1999-03-24  
 : PRIOR APPLICATION NUMBER: 60/104,994  
 : PRIOR FILING DATE: 1998-10-20  
 : NUMBER OF SEQ ID NOS: 15  
 : SOFTWARE: Patent Ver. 2.0  
 : SEQ ID NO 14  
 : LENGTH: 4999  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 : US-09-740-211-14

Query Match 100.0% Score 1001; DB 10; Length 4999;  
 Best Local Similarity 100.0%; Pred. No. 4, 9e-295;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATCAAGAGTTCATGATGATCTGCTCAGCATGGGAGCAATGAAACATCATCTATTTC 60  
 Db 3600 ATCAAGAGTTCATGATGATCTGCTCAGCATGGGAGCAATGAAACATCATCTATTTC 3659  
 Qy 61 ATTTCAGTGCATGTGTTCACTGTAAGAAAAAGAGAGATATAATGGACAGTACA 120  
 Db 3660 ATTTCAGTGCATGTGTTCACTGTAAGAAAAAGAGAGATATAATGGACAGTACA 3719  
 Qy 121 ATCTCATCAGAGTGTGTTTGAAGAGAGTGAATGTTACATCCAAAGCTGGAATTTGSC 180  
 Db 3720 ATCTCATCAGAGTGTGTTTGAAGAGAGTGAATGTTACATCCAAAGCTGGAATTTGSC 3779  
 Qy 181 GGGTGAATGCCCTTATTTGGGAGACATCTACATGCTGGAGATGACACATTTTCTGGGTG 240

Db 3780 GGGTGAATGCCCTTATTTGGGAGACATCTACATGCTGGAGATGACACATTTTCTGGGTG 3839  
 Qy 241 ACAGCAATATAGTTCAGACTCCCTTGGGAATGGCTCTTGACACATTAAGATTTTCAGA 300  
 Db 3840 ACAGCAATATAGTTCAGACTCCCTTGGGAATGGCTCTTGACACATTAAGATTTTCAGA 3899  
 Qy 301 TTTACAGCTTCAGACATATATGACAGTGGGCCCAAGAGTGGGCCAGACTTCAATTTCCG 360  
 Db 3900 TTTACAGCTTCAGACATATATGACAGTGGGCCCAAGAGTGGGCCAGACTTCAATTTCCG 3959  
 Qy 361 GATCAATCAATGCTTCGAGCACCAGAGAGCCCTTTCTTTGATCAAGTGGATCTTTGG 420  
 Db 3960 GATCAATCAATGCTTCGAGCACCAGAGAGCCCTTTCTTTGATCAAGTGGATCTTTGG 4019  
 Qy 421 CACCAATGATTTATCCAGGATCAAGCCAGGAGGCTCGAGAGTCTCCAGGCTCT 480  
 Db 4020 CACCAATGATTTATCCAGGATCAAGCCAGGAGGCTCGAGAGTCTCCAGGCTCT 4079  
 Qy 481 ACATCTCTCAGTTTATCATCATGTATAGTCTTGATGGGAAGAGTGGACACTTATCGAG 540  
 Db 4080 ACATCTCTCAGTTTATCATCATGTATAGTCTTGATGGGAAGAGTGGACACTTATCGAG 4139  
 Qy 541 GAAATTCACCTGGAACCTTAATGCTCTTTTGGCAATGATGATTCATCTGGATTAAC 600  
 Db 4140 GAAATTCACCTGGAACCTTAATGCTCTTTTGGCAATGATGATTCATCTGGATTAAC 4199  
 Qy 601 ACAATATTTTAAACCTTCATATTTGCTGATACATCCGTTTGACCCCAACTATTATA 660  
 Db 4200 ACAATATTTTAAACCTTCATATTTGCTGATACATCCGTTTGACCCCAACTATTATA 4259  
 Qy 661 GCATTTCGACACCTCTTCGATGAGATGATGGCTGTGATTAATAGTTGACAGATGC 720  
 Db 4260 GCATTTCGACACCTCTTCGATGAGATGATGGCTGTGATTAATAGTTGACAGATGC 4319  
 Qy 721 CATGGGAATGAGAGTAAGCAATATCAGATGACAGATATGACGCTTCAATCCAGTTTA 780  
 Db 4320 CATGGGAATGAGAGTAAGCAATATCAGATGACAGATATGACGCTTCAATCCAGTTTA 4379  
 Qy 781 CCAATATTTTGGACACCTGCTCTCCCTTCMAAAGCTCGACTTCACCTCCAGAGAGTA 840  
 Db 4380 CCAATATTTTGGACACCTGCTCTCCCTTCMAAAGCTCGACTTCACCTCCAGAGAGTA 4439  
 Qy 841 ATGCTGAGACCTCAGTGTGATTAATCCAAAGAGTGGCTCAAGTGGACTTCCAGAGA 900  
 Db 4440 ATGCTGAGACCTCAGTGTGATTAATCCAAAGAGTGGCTCAAGTGGACTTCCAGAGA 4499  
 Qy 901 CAATGAAGTCAAGAGTAACTACTGAGGAGTAATCTGCTTACAGCATGATG 960  
 Db 4500 CAATGAAGTCAAGAGTAACTACTGAGGAGTAATCTGCTTACAGCATGATG 4559  
 Qy 961 TGAAGAGTCTCTCATCTCCAGCAGTCAAGATGGCCATCAG 1001  
 Db 4560 TGAAGAGTCTCTCATCTCCAGCAGTCAAGATGGCCATCAG 4600

RESULT 4

US-10-095-718-1  
 : Sequence 1, Application US/10095718  
 : Patent No. US20020131956A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Walsh, Christopher  
 : APPLICANT: Chao, Hengjun  
 : APPLICANT: Burstein, Haim  
 : APPLICANT: Lynch, Carmel  
 : APPLICANT: Stepan, Tony  
 : APPLICANT: Munson, Keith  
 : TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and  
 : FILE REFERENCE: 35052/204375  
 : CURRENT APPLICATION NUMBER: US/10/095,718  
 : PRIOR FILING DATE: 2002-03-12  
 : PRIOR APPLICATION NUMBER: 09/689,430  
 : PRIOR FILING DATE: 2001-08-22



PRIOR APPLICATION NUMBER: 60/158,780  
PRIOR FILING DATE: 1999-10-12  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 7944  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Plasmid pDL26 encoding Homo sapiens BDD FVIII  
NAME/KEY: CDS  
LOCATION: (420)...(4835)  
US-10-095-718-1

Query Match 100.0%; Score 1001; DB 12; Length 7944;  
Best Local Similarity 100.0%; Pred. No. 6.3e-295;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCGATGATCTCTCAGATGGGACGATGCAATGCAATTCATTC 60  
DB 3646 ATCAAGATTCGATGATCTCTCAGATGGGACGATGCAATGCAATTCATTC 3705  
QY 61 ATTTCAGTGACATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120  
DB 3706 ATTTCAGTGACATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3765  
QY 121 ATCTATCCAGGTGTTTGGAGACGTGGAATGTTACATCCAAAGCTGGAATTTGGC 180  
DB 3766 ATCTATCCAGGTGTTTGGAGACGTGGAATGTTACATCCAAAGCTGGAATTTGGC 3825  
QY 181 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGTTGT 240  
DB 3826 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGTTGT 3885  
QY 241 ACAGCAATTAAGTGTCACTCTCCCTGGGAATGCTTCTGGACATTTAGACATTTTTCAGA 300  
DB 3886 ACAGCAATTAAGTGTCACTCTCCCTGGGAATGCTTCTGGACATTTAGACATTTTTCAGA 3945  
QY 301 TTACAGCTTCAGGACAAATATGACAGTGGGCCCCAAAGCTGGCCGACATCTCTTATTCGG 360  
DB 3946 TTACAGCTTCAGGACAAATATGACAGTGGGCCCCAAAGCTGGCCGACATCTCTTATTCGG 4005  
QY 361 GATCAATCAATGCTGGAGCACCAGAGAGCCCTTTCTTGGATCAAGTGTGATCTGTTGG 420  
DB 4006 GATCAATCAATGCTGGAGCACCAGAGAGCCCTTTCTTGGATCAAGTGTGATCTGTTGG 4065  
QY 421 CACCAATGATTTATTCAGGCGCATCAAGACCCGCTTTCTTGGATCAAGTGTGATCTGTTGG 480  
DB 4066 CACCAATGATTTATTCAGGCGCATCAAGACCCGCTTTCTTGGATCAAGTGTGATCTGTTGG 4125  
QY 481 ACATCTCTCAGTTTATCATCATGTATAGCTTGATGGGAAGAAGTGGGAGATTTTCGAG 540  
DB 4126 ACATCTCTCAGTTTATCATCATGTATAGCTTGATGGGAAGAAGTGGGAGATTTTCGAG 4185  
QY 541 GAAATTTCCAGTGAACCTTAAATGCTTCTTGGCAATGTGATTCATCTGGGATTAAC 600  
DB 4186 GAAATTTCCAGTGAACCTTAAATGCTTCTTGGCAATGTGATTCATCTGGGATTAAC 4245  
QY 601 ACAATATTTTAACTGCAATTAATGCTTCTTGGCAATGTGATTCATCTGGGATTAAC 660  
DB 4246 ACAATATTTTAACTGCAATTAATGCTTCTTGGCAATGTGATTCATCTGGGATTAAC 4305  
QY 661 GCATTCGAGCAGCTCTTGGCATGAGTGGAGGCTGTGATTTAAATGTTGGAGCATGCG 720  
DB 4306 GCATTCGAGCAGCTCTTGGCATGAGTGGAGGCTGTGATTTAAATGTTGGAGCATGCG 4365  
QY 721 CATTTGGAATGAGAGTAAAGCAATATGATGACAGATTAAGCTTCTCATCTCACTTTA 780  
DB 4366 CATTTGGAATGAGAGTAAAGCAATATGATGACAGATTAAGCTTCTCATCTCACTTTA 4425  
QY 781 CCAATATTTTGGCCACGCTGCTCTTCAAAAGCTGCACTTCACTTCAAGGAGAGAGTA 840  
DB 4426 CCAATATTTTGGCCACGCTGCTCTTCAAAAGCTGCACTTCACTTCAAGGAGAGAGTA 4485  
QY 841 ATGCTTGAGACCTCAGTGAATTAATCCAAAAGAGTGGCTGCAAGTGCATTCAGAGA 900  
DB 4486 ATGCTTGAGACCTCAGTGAATTAATCCAAAAGAGTGGCTGCAAGTGCATTCAGAGA 4545  
QY 901 CAATGAAGTCCAGAGTAATCTACTGAGGAGTAATCTCTCTTACCAAGCATGTATG 960  
DB 4546 CAATGAAGTCCAGAGTAATCTACTGAGGAGTAATCTCTCTTACCAAGCATGTATG 4605  
QY 961 TGAAGAGTTCCTCATCTCTCAGCAGTCAAGATGGCATCAG 1001  
DB 4606 TGAAGAGTTCCTCATCTCTCAGCAGTCAAGATGGCATCAG 4646

## RESULT 5

US-09-957-641-1  
Sequence 1, Application US/09957641  
Publication No. US20020182670A1

GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: MODIFIED FACTOR VIII  
FILE REFERENCE: 75-00  
CURRENT APPLICATION NUMBER: US/09/957,641  
PRIOR FILING DATE: 2001-09-16  
PRIOR APPLICATION NUMBER: US 60/234047  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: US 60/236460  
PRIOR FILING DATE: 2000-09-29  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1

LENGTH: 9009  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (208)...(7203)  
US-09-957-641-1

Query Match 100.0%; Score 1001; DB 9; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 6.7e-295;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCGATGATCTCTCAGATGGGACGATGCAATGCAATTCATTC 60  
DB 6017 ATCAAGATTCGATGATCTCTCAGATGGGACGATGCAATGCAATTCATTCATTC 6076  
QY 61 ATTTCAGTGACATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120  
DB 6077 ATTTCAGTGACATGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 6136  
QY 121 ATCTATCCAGGTGTTTGGAGACGTGGAATGTTACATCCAAAGCTGGAATTTGGC 180  
DB 6137 ATCTATCCAGGTGTTTGGAGACGTGGAATGTTACATCCAAAGCTGGAATTTGGC 6196  
QY 181 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGTTGT 240  
DB 6197 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGTTGT 6256  
QY 241 ACAGCAATTAAGTGTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300  
DB 6257 ACAGCAATTAAGTGTCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 6316  
QY 301 TTACAGCTTCAGGACAAATATGACAGTGGGCCCCAAAGCTGGCCGACATTCATTAATTCG 360  
DB 6317 TTACAGCTTCAGGACAAATATGACAGTGGGCCCCAAAGCTGGCCGACATTCATTAATTCG 6376  
QY 361 GATCAATCAATGCTGGAGCACCAGAGAGCCCTTTCTTGGATCAAGTGTGATCTGTTGG 420  
DB 6377 GATCAATCAATGCTGGAGCACCAGAGAGCCCTTTCTTGGATCAAGTGTGATCTGTTGG 6436  
QY 421 CACCAATGATTTATTCAGGCGCATCAAGACCCGCTTTCTTGGATCAAGTGTGATCTGTTGG 480







Db 6404 CCCAGGAGCTGTGATGCTGGCAAGCCAGGCAACAACTAATAGCAGTGGCTAGAAA 6463  
QY 886 TGGACTTCAGAGACAAATGAAGTCAAGAGTAACTACTAGGAGAGTAAATCTCTGC 945  
Db 6464 TTGATCTACTACAGATCAAGATGAAGATTAAGGCAATTTATACACAGGGCTCAGTCTCT 6523  
QY 946 TTACCCAGCATGTGTGAAGAGATTTCTCTATCTCCAGCAGTCAAGTGG 994  
Db 6524 CCTGTGAATGTATGTAAAGAGCTATATACATCCATCAGTGAAGGAGG 6572

## RESULT 10

US-09-974-298-167  
; Sequence 167, Application US/09974298  
; Patent No. US20020156263A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Huei-Mei  
; TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER  
; FILE REFERENCE: PA-0037 P  
; CURRENT APPLICATION NUMBER: US/09/974,298  
; PRIORITY FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/238,331  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO: 167  
; LENGTH: 4599  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID NO. US20020156263A1 235636.1  
US-09-974-298-167

Query Match 9.2%; Score 92.4; DB 9; Length 4599;  
Best Local Similarity 48.1%; Pred. No. 7.6e-18;  
Matches 301; Conservative 0; Mismatches 316; Indels 9; Gaps 1;

QY 384 AAGGAGCCCTTTTCTTGATCAAGTGTCTGTTGGCACCAGTATATTCAGCGCATC 443  
Db 941 AATGAGATGTCGCGCTGATTCAGATTAATTTGCAAGGAAATAGAGTACTGCTG 1000  
QY 444 AAGACCCAGGTCGCCGTCAGAAAGTCTCCAGCCTCATCATCTCAGTTATCATCAG 503  
Db 1001 ATTACCCAGGAGCCAGAGAGATTTGGAAGCCAGAGTATATTAATCTTACAAATTTGCC 1060  
QY 504 TATAGTCTTGTGAGGAAGTGGCAGACTTATTCAGAGAAATTCACCTGGAACCTTAAG 563  
Db 1061 TACAGTAATGATGAAGAAAGCTTGGCAATGTACAAAGTGAAGGACCAATGACATG 1120  
QY 564 GTCTTCTTGGCAATGTGATCATCTGGGATTAACACATATTTTAACTCCATTT 623  
Db 1121 GTGTTTCGTCGAAACATGTGATTAACACATCTCATATGCTTAACCTTTACACCCCCCATTA 1180  
QY 624 ATTGCTGCATACATCCGTTTGCACCAACTCATTTATAGCATTCGAGCAGCTTTCGATG 683  
Db 1181 AAGGTCAGTATGTAAGACTATATCCCAAGTTTGTGAGAGCATTTGAGCATTTGGGAATG 1240  
QY 684 GAGTTGATGGCTGTGATTTAAATAGTTGACAGCATTCATTGGGAGAGAGATTAAGCA 743  
Db 1241 GAACCTTCTTGGCTGAACTGCGGGTGTCTGAGCCTTGGGATGTAATATCAGACAT 1300  
QY 744 ATATAGATGACACATATGCTTACCTCATCTACT-----TTACCAATATGTTTCC 794  
Db 1301 ATACAAGCATATCAGATCAGTGCCTCCAGCATCTTCAGAACGCTCAACATGAGACATGTC 1360  
QY 795 ACCGTGCTCTTCAAAAGCTGCACTTCACTCAAGGAGAGATATGCTTGGAGACT 854  
Db 1361 ACTTGGAAACCAAGGAAGTGTGCTGAGCAAGGAGCAAGTGAATGCAATGCTTGGAGCTCT 1420  
QY 855 CAGGTGATTAATCCAAAGAGTGGCTGCAAGTGAATTCAGAAAGACATGAATGAACACA 914  
Db 1421 GCCCAGCATGACAGTCAATGTTTACAGGTGATCTTCTTGTCCAAACCAAGTGAAT 1480

QY 915 GGAGTAACACTACAGAGATTAATATCTGCTTACACAGCATGTATGTAAGAGTCTCTC 974  
Db 1481 GGCATCATTTACCAAGAGAGCTTAAGATTTTGGTCAATGATGATGTTTGGTCTCTACAAA 1540  
QY 975 ATCTCCAGCATGCAAGATGGCCATCA 1000  
Db 1541 CTGGCTTACAGCAATGATGAGAAACA 1566

## RESULT 11

US-10-003-132-12  
; Sequence 12, Application US/10003132  
; Publication No. US20020192750A1  
; GENERAL INFORMATION:  
; APPLICANT: Fox, Brian A.  
; APPLICANT: Gao, Zeren  
; APPLICANT: Shoemaker, Kimberly E.  
; TITLE OF INVENTION: NEUROFILIN HOMOLOG 2CUB5  
; FILE REFERENCE: 00-62  
; CURRENT APPLICATION NUMBER: US/10/003,132  
; PRIORITY FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: US 60/249,004  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO: 12  
; LENGTH: 2145  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: degenerate nucleotide sequence  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(2145)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-003-132-12

Query Match 7.6%; Score 76; DB 9; Length 2145;  
Best Local Similarity 32.4%; Pred. No. 5.1e-13;  
Matches 122; Conservative 64; Mismatches 191; Indels 0; Gaps 0;

QY 329 GGGCCCAAGTGGCCAGACTCTATTTCCGATCATCAATAGCCCTGGAGCACCAAGGA 388  
Db 867 GCGMGNNTTNCARAYCARGGCCNMSNTGGCCNWSNGATWSNNAAYACAYAA 926  
QY 389 GCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAGTATATTCACGCGATCAAGAC 448  
Db 927 RCMMNGARTGCTTNGARATHGAYITNGNGARAAARAAATATACNGNATTHMGNC 986  
QY 449 CCAAGGTGCCCTGAGAAGTTCTCCAGCTCTACATCTCACTTATCATCATGTATAG 508  
Db 987 NACNGMWSNACNARWSNNAAYTTTAAATTTTAYGTAAARWSNTTGTATGAATTTAA 1046  
QY 509 TCTGTATGGGAAGAGTGGAGCACTTATGAGGAATTCACAGCAATTCACCTTAATGCTCT 568  
Db 1047 RAAYATAATWSNNAARTGGAARACNTATYAAAGNATHGTAAATAAYGARGARARCTNTT 1106  
QY 569 CTTTGGCAATGTGATTCATCTGGGATTAACCAATATTTTAACTCCATTAATTTTC 628  
Db 1107 YCARGAAYWSNNAAYTTTNGNGAYCCNGTNCARAAAYATTTATTCGCCNCAHTTNGC 1166  
QY 629 TCGATACATCCGTTTGCACCAACTCATTTATACATTCGAGCAGCTCTTCCATGAGATT 688  
Db 1167 NMGTATGTMNGTNGTNCNCAACNCTGTCAYCARMGNATHGCMYTNARCTNGARATY 1226  
QY 689 GATGGCTGTGATTTAA 705  
Db 1227 NATHGNTGTCAATRA 1243

RESULT 12  
US-09-880-107-3020  
; Sequence 3020, Application US/09880107

```

Patient No US20020142981A1
;
GENERAL INFORMATION:
;
APPLICANT: Horne, Darci T.
APPLICANT: Vockley, Joseph G.
APPLICANT: Scherf, Uwe
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
FILE REFERENCE: 44921-5028-WO
CURRENT APPLICATION NUMBER: US/09/880,107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3020
LENGTH: 1270
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 S56151
US-09-880-107-3020

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Query Match	7.2%;	Score 72.4;	DB 10;	Length 1270;
Best Local Similarity	51.6%;	Pred. No. 4.8e-12;		
Matches 197;	Conservative	0;	Mismatches 176;	Indels 9; Gaps 1

QY 561 ATGCTCTCTTTGGGAATGTGGATTTCAATCGGGATTAACACAAATATTTTAAACCTTCA 620

Db 31 AAGGAGTTTGTGGTACTGCAACAAAACCGGTGATGTCTCAACTGTTTGAAGCCCT 90

QY 621 ATTATTCCTCGATACATCCGTTTGGCAACCACATCATTTATGCAATTCGACACTCTTGGC 680

Db 91 GTGGAGAGCTCACTACGTGAGATTTGACCCCAACGAGCTGCACACAGGCGCTGACTCTGGGC 150

QY 681 ATGAGACTTAATGGCTGTGATTTAAATATGTTGCACGATGCGAATTTGGGAATGGAAGATPAA 740

Db 151 TTTCGACCTACTGGGCTGTGAGCTGACGAGGAGTGGCCATTCCTCGGCGCTGGAAGATPAC 210

QY 741 GCAAATTCAGAGTGCACAGATTACGTTCATCTCACTTTACCAATATG-----TTT 791

Db 211 AGCATCCCTTGACACAGAGATGACAGGCTTCACGACGTACAGACCTGGGGCTTGCATCTC 270

QY 792 GCCACCTGGTCTCTTCCAAAAGCTCGAATTACCTCCAAAGGAGAGTATGCTCGAGGA 851

Db 271 TTTCAGCTGGAACCCCTCTCTATGSCAAGCGGTGACAAAGAGGGCAACTTCAAGCCCTGGGTT 330

QY 852 CCTTCAGTGAATTAATCCAAAAGAGTGGCTGCAGTGCATTCCTCCAGAACCAATGAAGTTC 911

Db 331 GCGGGAGCTACGATGAAGATCAGTACGAGGTGAGCTGAGGCTCTCTCGAAGGAGGTG 390

QY 912 ACAGAGCTAATCTTCAGGAG 933

Db 391 ACAGGATCATCACCCAGGGGG 412

```

RESULT 13
US-09-960-352-13850
; Sequence 13850, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengping
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960.352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ. ID NOS: 15112
; SEQ ID NO 13850

```

```

; LENGTH: 357
;
; TYPE: DNA
;
; ORGANISM: Bos taurus
;
; OTHER INFORMATION: Clone ID: 59-LIB34-008-Q1-E1-G12
;
US-09-960-352-13850

```

Query Match	6.9%;	Score 69.2;	DB 10;	Length 357;
Best Local Similarity	54.8%;	Pred. No. 2.3e-11;		
Matches 137;	Conservative	0;	Mismatches 113;	Indels 0;
			Gaps	0;

Qy	129	CCAGTGTGTTTGGACAGCTGGAATCTTACATCCAAAGCTGGAATTTGGCGGTGGA	188
Db	34	CTGTGTATTTTAAACCTCTTGAATGAAGCATCAAAACCTGGCTGGTGGCTCTGAC	93
Qy	189	TGCTTATTTGGCGGACATCTACATGCTGGAGTGACACACTTTTCTGGTGTACGCAAT	248
Db	94	ACGGATGTTGGAGAAATTCACAGAGCGAGGGATGCGACACCATTCTCATTTGTAGACGA	153
Qy	249	AAGTGTGACGTCCCTGGGAATGGCTTGTGACACATTTAGAGATTTTCAGATTACAGCT	308
Db	154	GAAATTAAGATGCCAATGGACTAAGCACTGGCTGTAGCTGACTACAGATCCAGGCT	213
Qy	309	TCAGACAAATATGACAGCTGGGCCCCAAAGCTGSCCAGACTTCATTTCCGGATCAATC	368
Db	214	TCTGTATTTTGGGGTTATTTGGGAACCCAAATTAGCAAGGTTAAACAATGGTGGATCATAC	273
Qy	369	AATGCTCGGA	378
Db	274	AATGCTTGA	283

```

RESULT 14
US-09-960-352-8113
: Sequence 8113, Application US/09960352
: Patent NO. US200201377139A1
: GENERAL INFORMATION:
: APPLICANT: Warren, Wesley C.
: APPLICANT: Tao, Nengding
: APPLICANT: Byatt, John C.
: APPLICANT: Mahalingam, Nagappan
: TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
: TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
: FILE REFERENCE: 16511.006/37-21(10298)C
: CURRENT APPLICATION NUMBER: US/09/960.352
: CURRENT FILING DATE: 2001-09-24
: NUMBER OF SEQ ID NOS: 15112
: SEQ ID NO 8113
: LENGTH: 389
: TYPE: DNA
: ORGANISM: Bos taurus
: OTHER INFORMATION: Clone ID: 35-LIB2809-021-Q1-E1-A4
US-09-960-352-8113

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Query Match	6.18;	Score 61.2;	DB 10;	Length 389;
Best Local Similarity	51.28;	Pred. No. 6.8e-09;		
Matches 175; Conservative	0;	Mismatches 158;	Indels 9;	Gaps 1

Qy	722	ATTGGGAATGAGAGATAAGCAATATCAGATGACAGATTACTGCTTCACTTACTTAC	783
Db	31	CAGAGGCTGACACCTCCGCTTTGAACTCCTTGCGCTGTGATGTAATGATGACTACTGAAC	90
Qy	662	CATTGGCAGACCTCTTCCCATGAGAGTTATGAGGGCTGTATTTAAATAGTTGACACATGCC	721
Db	11		111
Qy	782	CATATATGTTTGGCAC-----CTGCTCTCTTTCAAAAGCTGACTTCAACTCCAAAG	833
Db	91	CCTAGCGCTGAAGATATATTACCATCTCCCAACAGAGATACACAGCTTCCAGCTACTCAAA	156
Qy	151	AACCTGGGGCCCTGAGATGCTTTAGCTGTGGTTTCCCTACTACGACAGACTGATTAATCAAGG	210
Db	11		111
Qy	833	GAGGATATGCTGTGAGACCTCGAGGATGAATATCCAAAAGAGGCGTCAAGTGGACCTT	892
Db	211	CAGTTTCAACGCTGTGACCGCCACAGACCACAGTGTCTCTGATGGCTGCAGATTGACTT	270
Qy	892		111
Db	270		111

QY	893	CCAAAGACCATTTGAAAGTCACAGAGTACTACTACAGGGATTAATCTCTGCTTCCAG	952
	271	GGGCTCCCAAGAGGATGCACGGGCATCATATCCACAGGGTCCCGAGACTTTGGCCACT	330
QY	953	CATGATCTGAAGAGTTCCTCATCTCCACAGCATCAAGATGG	994
Db	331	TCAATATGTGGCTGCTCTACAGGGGTCTTATGGATGATGATG	372

RESULT 15

```

US-09-960-352-109
: Sequence 3109, Application US/09960352
: Patent No. US20020137139A1
: GENERAL INFORMATION:
:   APPLICANT: Warren, Wesley C.
:   APPLICANT: Tao, Nengping
:   APPLICANT: Byatt, John C.
:   APPLICANT: Mathialagan, Nagappan
:   TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
:   FILE REFERENCE: 16511.006/37-21(10298)C
:   CURRENT APPLICATION NUMBER: US/09/960,352
:   CURRENT FILING DATE: 2001-09-24
:   NUMBER OF SEQ ID NOS: 15112
:   SEQ ID NO 3109
:   LENGTH: 367
:   TYPE: DNA
:   ORGANISM: Bos taurus
:   OTHER INFORMATION: Clone ID: 14-LIB2809-023-Q1-E1-D5
:   US-09-960-352-3109

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Query Match	6.1%	Score 61	DB 10	length 367
Best Local Similarity	51.3%	Pred. No.	7.6e-09	
Matches 173, Conservative	0	Mismatches	155	Indels 9; Gaps 1

Search completed: January 5, 2003, 03:13:45  
Job time : 144 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: January 5, 2003, 04:48:07 ; Search time 24 Seconds  
(without alignments)  
17.163 Million cell updates/sec

Title: US-09-740-211-15

Perfect score: 75

Sequence: 1 SFSQNPYLKRHR 14

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*

2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*

3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*

4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*

5: /cgn2\_6/ptodata/1/1aa/6C.COMB.pep:\*

6: /cgn2\_6/ptodata/1/1aa/6D.COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	75	100.0	14	2	US-08-634-001C-1
2	75	100.0	14	4	US-09-470-618-15
3	75	100.0	1438	4	US-09-209-916-1
4	65	86.7	1661	2	US-08-882-083-2
5	65	86.7	1661	2	US-08-558-107-2
6	65	86.7	1661	4	US-09-243-539-2
7	65	86.7	1661	4	US-07-864-004B-4
8	65	86.7	2332	1	US-08-251-937A-4
9	65	86.7	2332	1	US-08-212-133A-2
10	65	86.7	2332	1	US-08-276-594A-2
11	65	86.7	2332	1	US-08-474-503-2
12	65	86.7	2332	2	US-08-670-707A-2
13	65	86.7	2332	4	US-09-037-601-2
14	65	86.7	2332	4	US-09-324-867-3
15	65	86.7	2332	4	US-09-315-179-2
16	65	86.7	2332	4	US-09-523-656-2
17	65	86.7	2332	5	PCT-US93-03275-4
18	65	86.7	2332	5	PCT-US94-13200-2
19	65	86.7	2331	1	US-08-121-202-2
20	65	86.7	2331	1	US-08-366-851A-2
21	65	86.7	2351	6	5171844-2
22	65	86.7	2351	6	5422260-1
23	58	77.3	1471	1	US-08-683-839B-3
24	58	74.7	2304	4	US-09-324-867-4
25	56	74.7	2319	1	US-08-212-133A-8
26	56	74.7	2319	1	US-08-474-503-6
27	56	74.7	2319	2	US-08-670-707A-6

28	56	74.7	2319	4	US-09-037-601-6	Sequence 6, Appl
29	56	74.7	2319	4	US-09-315-179-6	Sequence 6, Appl
30	56	74.7	2319	4	US-09-523-656-28	Sequence 28, Appl
31	56	74.7	2319	5	PCT-US94-13200-6	Sequence 6, Appl
32	55	73.3	34	3	US-08-441-935-30	Sequence 30, Appl
33	55	73.3	34	4	US-08-441-943-30	Sequence 30, Appl
34	54	72.0	24	4	US-09-523-656-32	Sequence 32, Appl
35	54	72.0	1467	4	US-09-523-656-38	Sequence 38, Appl
36	54	72.0	2343	4	US-09-324-867-2	Sequence 2, Appl
37	50	66.7	9	4	US-08-441-943-34	Sequence 34, Appl
38	47	62.7	868	1	US-07-864-004B-6	Sequence 6, Appl
39	47	62.7	868	1	US-08-251-937A-6	Sequence 6, Appl
40	47	62.7	868	1	US-08-212-133A-3	Sequence 3, Appl
41	47	62.7	1090	5	PCT-US93-03275-6	Sequence 6, Appl
42	47	62.7	2115	4	US-09-324-867-5	Sequence 5, Appl
43	47	62.7	2133	2	US-08-670-707A-37	Sequence 37, Appl
44	47	62.7	2133	4	US-09-037-601-37	Sequence 37, Appl
45	47	62.7	2133	4	US-09-315-179-37	Sequence 37, Appl

## ALIGNMENTS

RESULT 1  
US-08-634-001C-1  
Sequence 1, Application US/08634001C  
Patent No. 5952198  
GENERAL INFORMATION:  
APPLICANT: Chan, Shun-Yuen  
TITLE OF INVENTION: Production of Recombinant Factor VIII  
TITLE OF INVENTION: In the Presence of Liposome-Like  
SUBSTANCES OF MIXED COMPOSITION  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bayer Corporation  
STREET: 800 Dwight Way  
STREET: P. O. Box 1986  
CITY: Berkeley  
STATE: California  
COUNTRY: USA  
ZIP: 94701-1986  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB Storage  
COMPUTER: IBM  
OPERATING SYSTEM: DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/634,001C  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/434,900  
FILING DATE: May 4, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Giblin, James A.  
REGISTRATION NUMBER: 25772  
REFERENCE/DOCKET NUMBER: MSB-7226CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510)705-7910  
TELEFAX: (510)705-7904  
INFORMATION FOR SEQ ID NO. 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 14  
TYPE: amino acid  
STRANDEDNESS: single strand  
TOPOLOGY: linear  
MOLECULE TYPE:  
DESCRIPTION: peptide  
US-08-634-001C-1

Query Match 100.0%; Score 75; DB 2; Length 14;  
Best Local Similarity 100.0%; Pred. No. 4.7e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVPLKRHR 14  
|  
Db 1 SFSQNPVPLKRHR 14

## RESULT 2

US-09-470-618-15  
; Sequence 15, Application US/09470618  
; Patent No. 6200560  
; GENERAL INFORMATION:  
; APPLICANT: Couto, Linda B.  
; APPLICANT: Colosi, Peter C.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; FILE REFERENCE: Avigen-04082  
; CURRENT APPLICATION NUMBER: US/09/470,618  
; CURRENT FILING DATE: 1999-12-22  
; EARLIER APPLICATION NUMBER: 09/364,862  
; EARLIER FILING DATE: 1999-07-30  
; EARLIER APPLICATION NUMBER: 60/125,974  
; EARLIER FILING DATE: 1999-03-24  
; EARLIER APPLICATION NUMBER: 60/104,994  
; EARLIER FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-470-618-15

Query Match  
Best Local Similarity 100.0%; Score 75; DB 4; Length 14;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVPLKRHR 14  
|  
Db 1 SFSQNPVPLKRHR 14

## RESULT 3

US-09-209-916-1  
; Sequence 1, Application US/09209916  
; Patent No. 6358703  
; GENERAL INFORMATION:  
; APPLICANT: Cho, Myung-Sam  
; APPLICANT: Chan, Sham-Yuen  
; APPLICANT: Kelsey, William  
; APPLICANT: Yee, Helena  
; TITLE OF INVENTION: Expression System for Factor VIII  
; FILE REFERENCE: MSB-7255  
; CURRENT APPLICATION NUMBER: US/09/209,916  
; CURRENT FILING DATE: 1998-12-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1438  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human factor VIII sequence  
US-09-209-916-1

Query Match  
Best Local Similarity 100.0%; Score 75; DB 4; Length 1438;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVPLKRHR 14  
|  
Db 1 SFSQNPVPLKRHR 14

Db 741 SFSQNPVPLKRHR 754

## RESULT 4

US-08-882-083-2  
; Sequence 2, Application US/08882083  
; Patent No. 5869292  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentln Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,083  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558,107  
; FILING DATE: 13-NOV-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33,715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1661 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-882-083-2

Query Match  
Best Local Similarity 86.7%; Score 65; DB 2; Length 1661;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SQNPVPLKRHR 14  
|  
Db 966 SQNPVPLKRHR 977

## RESULT 5

US-08-558-107-2  
; Sequence 2, Application US/08558107  
; Patent No. 5910481  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/558,107  
FILING DATE: 13-NOV-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1661 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-558-107-2

Query Match 86.7%; Score 65; DB 2; Length 1661;  
Best Local Similarity 100.0%; Pred. No. 0.0045;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVLKRHR 14  
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DB 966 SONPVLKRHR 977

RESULT 6  
US-09-243-539-2

Sequence 2, Application US/09243539  
Patent No. 6130203  
GENERAL INFORMATION:  
APPLICANT: VOORBERG, Johannes J.  
TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/243,539  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/558,107  
FILING DATE: 13-NOV-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1661 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-243-539-2

Query Match 86.7%; Score 65; DB 4; Length 1661;  
Best Local Similarity 100.0%; Pred. No. 0.0045;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVLKRHR 14  
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DB 966 SONPVLKRHR 977

RESULT 7  
US-07-864-004B-4

Sequence 4, Application US/07864004B  
Patent No. 5364771  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
REGISTRATION NUMBER: 31,284  
REFERENCE/DOCKET NUMBER: EMU106  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-815-6508  
TELEFAX: 404-815-6555  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver cDNA sequence  
US-07-864-004B-4

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1637 SONPVLKRHR 1648

RESULT 8  
US-08-251-937A-4  
Sequence 4, Application US/08251937A  
Patent No. 5583209  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1661 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-243-539-2

TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 1100 Peachtree Street  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30309  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/251,937A  
FILING DATE: 31-MAY-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Pratt, John S.  
REGISTRATION NUMBER: 29,476  
REFERENCE/DOCKET NUMBER: EMU106DIV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-815-6367  
TELEFAX: 404-815-6555  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver CDNA sequence  
US-08-251-937A-4

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 SONPVLRKHQR 14  
Db 1637 SONPVLRKHQR 1648

RESULT 9  
US-08-212-133A-2  
Sequence 2, Application US/08212133A  
Patent No. 5663060  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
APPLICANT: Runge, Marshall S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 100 Peachtree Street  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/212,133A  
FILING DATE: March 11, 1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Pabst, Patricia L.  
REGISTRATION NUMBER: 31,284  
REFERENCE/DOCKET NUMBER: EMU/76677  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-572-6508  
TELEFAX: 404-572-6555  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver CDNA sequence  
US-08-212-133A-2

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 SONPVLRKHQR 14  
Db 1637 SONPVLRKHQR 1648

RESULT 10  
US-08-276-594A-2  
Sequence 2, Application US/08276594A  
Patent No. 5693499  
GENERAL INFORMATION:  
APPLICANT: YONEMURA, Hiroshi  
APPLICANT: TAJIMA, Yoshitaka  
APPLICANT: SUGAWARA, Keishin  
APPLICANT: MASUDA, Kenichi  
TITLE OF INVENTION: PROCESS FOR PREPARING HUMAN COAGULATION  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/276,594A  
FILING DATE: 18-JUL-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/950,191  
FILING DATE: 24-SEP-1992  
PRIOR APPLICATION DATA: JP 243262/1991  
FILING DATE: 24-SEP-1991  
ATTORNEY/AGENT INFORMATION:

NAME: WEGNER, Harold C.  
REGISTRATION NUMBER: 25,258  
REFERENCE/DOCKET NUMBER: 74129/195/AOPA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-276-594A-2

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYLRHQR 14  
Db 1637 SONPVYLRHQR 1648

RESULT 11  
US-08-474-503-2

Sequence 2, Application US/08474503  
Patent No. 5744446  
GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 1100 Peachtree Street, Suite 2800  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30309  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/474,503  
APPLICATION NUMBER: US/08/474,503  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: .435  
ATTORNEY/AGENT INFORMATION:  
NAME: Pratt, John S.  
REGISTRATION NUMBER: 29,476  
REFERENCE/DOCKET NUMBER: EMU106CIP(3)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-815-6500  
TELEFAX: 404-815-6555  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver cDNA sequence  
US-08-474-503-2

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYLRHQR 14  
Db 1637 SONPVYLRHQR 1648

RESULT 12  
US-08-670-707A-2

Sequence 2, Application US/08670707A  
Patent No. 5839204  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
STREET: 5370 Manhattan Circle Suite 201  
CITY: Boulder  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/670,707A  
FILING DATE: 26-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US94/13200  
FILING DATE: 15-NOV-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/212,133  
FILING DATE: 11-MAR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Greenlee, Lorraine L.  
REGISTRATION NUMBER: 27,894  
REFERENCE/DOCKET NUMBER: 75-95F  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 303/499-8080  
TELEFAX: 303/499-8089  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
TISSUE TYPE: Liver  
US-08-670-707A-2

Query Match 86.7%; Score 65; DB 2; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYLRHQR 14  
Db 1637 SONPVYLRHQR 1648

RESULT 13  
US-09-037-601-2  
Sequence 2, Application US/09037601

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; Patent No. 6180371
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/037,601
; FILING DATE: 26-JUN-1996
; CLASSIFICATION:
; PRIORITY INFORMATION:
; APPLICATION NUMBER: WO PCT/US94/13200
; FILING DATE: 15-NOV-1994
; PRIORITY INFORMATION:
; APPLICATION NUMBER: US 08/212,133
; FILING DATE: 11-MAR-1994
; PRIORITY INFORMATION:
; APPLICATION NUMBER: US 07/864,004
; FILING DATE: 07-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 75-95F
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/439-8080
; TELEFAX: 303/499-8089
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2332 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Liver
; US-09-037-601-2

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

RESULT 14
US-09-324-867-3
; Sequence 3, Application US/09324867A
; Patent No. 6251632
; GENERAL INFORMATION:
; APPLICANT: Lillietrap, David
; APPLICANT: Cameron, Cherlie
; APPLICANT: No. 62516321ey, Colleen
; APPLICANT: Horrocks, L. Suzanne Hoyle
; APPLICANT: Hough, Christine
; TITLE OF INVENTION: Canine Factor VIII Gene, Protein and Methods of Use
; FILE REFERENCE: 1669.0010002/JAG/BJD
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; CURRENT APPLICATION NUMBER: US/09/324,867A
; CURRENT FILING DATE: 1999-06-03
; EARLIER APPLICATION NUMBER: 09/035,141
; EARLIER FILING DATE: 1998-03-059
; EARLIER APPLICATION NUMBER: 60/039,953
; EARLIER FILING DATE: 1997-03-06
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-324-867-3

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

RESULT 15
US-09-315-179-2
; Sequence 2, Application US/09315179
; Patent No. 6376463
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S
; TITLE OF INVENTION: Modified Factor VIII
; FILE REFERENCE: 75-95H
; CURRENT APPLICATION NUMBER: US/09/315,179
; CURRENT FILING DATE: 1999-05-20
; EARLIER APPLICATION NUMBER: U.S. 09/037,601
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: U.S. 08/670,707
; EARLIER FILING DATE: 1996-06-26
; EARLIER APPLICATION NUMBER: PCT/US97/11155
; EARLIER FILING DATE: 1997-06-26
; EARLIER APPLICATION NUMBER: PCT/US94/13200
; EARLIER FILING DATE: 1994-11-15
; EARLIER APPLICATION NUMBER: U.S. 08/212,133
; EARLIER FILING DATE: 1994-03-11
; EARLIER APPLICATION NUMBER: U.S. 07/864,004
; EARLIER FILING DATE: 1992-04-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patentin Ver. 2.0
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; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-315-179-2

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

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GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: January 5, 2003, 06:13:09 ; Search time 17 Seconds  
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15.607 Million cell updates/sec

Title: US-09-740-211-15

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Gapop 10.0 , Gapext 0.5

Searched: 117078 seqs, 18951520 residues

Total number of hits satisfying chosen parameters: 117078

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	75	100.0	14	9 US-09-740-211-15	Sequence 15, Appl
3	75	100.0	1438	12 US-10-006-091-1	Sequence 1, Appl
4	75	100.0	1438	12 US-10-047-257-1	Sequence 1, Appl
5	65	86.7	2332	9 US-09-957-641-2	Sequence 2, Appl
6	55	77.3	1471	12 US-10-095-718-2	Sequence 2, Appl
7	55	72.3	34	10 US-09-748-062-30	Sequence 30, Appl
8	50	66.7	9	10 US-09-748-062-34	Sequence 34, Appl
9	38	50.7	79	9 US-09-796-692-2429	Sequence 2429, Ap
10	38	50.7	269	9 US-10-027-806-24	Sequence 24, Appl
11	38	50.7	269	9 US-10-034-623-24	Sequence 24, Appl
12	38	50.7	273	9 US-10-027-806-56	Sequence 56, Appl
13	38	50.7	273	9 US-10-034-623-56	Sequence 56, Appl
14	38	50.7	684	10 US-09-765-298A-18	Sequence 18, Appl
15	37	49.3	158	9 US-09-887-593-2	Sequence 2, Appl
16	37	49.3	194	10 US-09-764-898-285	Sequence 285, App
17	37	49.3	293	10 US-09-764-898-213	Sequence 213, App
18	37	49.3	405	12 US-10-060-333-2	Sequence 2, Appl
19	37	49.3	447	10 US-09-888-615-109	Sequence 109, App

20	37	49.3	533	9 US-10-041-406-2	Sequence 2, Appl
21	36	48.0	49	10 US-09-864-761-40695	Sequence 40695, A
22	36	48.0	452	10 US-09-925-297-683	Sequence 683, App
23	36	48.0	468	10 US-09-768-826-40	Sequence 40, Appl
24	36	48.0	494	10 US-09-833-790-234	Sequence 234, App
25	36	48.0	551	10 US-09-897-214-8	Sequence 8, Appl
26	36	48.0	565	10 US-09-768-826-58	Sequence 58, Appl
27	36	48.0	763	10 US-09-815-242-13643	Sequence 13643, A
28	35.5	47.3	221	10 US-09-764-864-1484	Sequence 1484, Ap
29	35.5	47.3	284	10 US-09-925-300-1322	Sequence 1322, Ap
30	35.5	47.3	513	10 US-09-764-864-1061	Sequence 1061, Ap
31	35.5	47.3	910	9 US-09-908-153B-40	Sequence 40, Appl
32	35.5	47.3	922	9 US-09-908-153B-42	Sequence 42, Appl
33	35	46.7	36	9 US-10-016-634A-161	Sequence 161, App
34	35	46.7	320	9 US-09-738-626-6378	Sequence 6378, Ap
35	35	46.7	523	10 US-09-815-242-11918	Sequence 11918, A
36	34.5	46.0	711	10 US-09-976-165-10	Sequence 10, Appl
37	34.5	46.0	711	10 US-09-828-648-2	Sequence 2, Appl
38	34	45.3	26	10 US-09-864-761-41575	Sequence 41575, A
39	34	45.3	36	10 US-09-864-761-34767	Sequence 34767, A
40	34	45.3	94	10 US-09-826-463-3	GENERAL INFORMA
41	34	45.3	100	10 US-09-892-228-126	Sequence 126, App
42	34	45.3	112	10 US-09-867-350-1070	Sequence 1070, App
43	34	45.3	322	10 US-09-741-669-404	Sequence 404, App
44	34	45.3	339	9 US-10-036-041-80	Sequence 80, Appl
45	34	45.3	339	10 US-09-729-674-138	Sequence 138, App

#### ALIGNMENTS

RESULT 1  
US-10-007-968-15  
; Sequence 15, Application US/10007968  
; Patent No. US2002015997A1  
; GENERAL INFORMATION:  
; APPLICANT: Coulto, Linda B.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; TITLE OF INVENTION: by Target Cells  
; FILE REFERENCE: AVigen-04062  
; CURRENT APPLICATION NUMBER: US/10/007, 968  
; CURRENT FILING DATE: 2001-12-13  
; PRIOR APPLICATION NUMBER: 09/740, 211  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: 60/125, 974  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104, 994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-15  
Query Match 100.0%; Score 75; DB 9; Length 14;  
Best Local Similarity 100.0%; Pred. No. 8.8e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SFSQNPVYLRKHQR 14  
Db 1 SFSQNPVYLRKHQR 14  
RESULT 2  
US-09-740-211-15  
; Sequence 15, Application US/09740211  
; Patent No. US20010010815A1  
; GENERAL INFORMATION:



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; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: Avigen-04082
; CURRENT APPLICATION NUMBER: US/09/740,211
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 09/470,618
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/125,974
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/104,994
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 15
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-740-211-15
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Query Match
Best Local Similarity 100.0%; Score 75; DB 10; Length 14;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 SFSQNPVLRKHQR 14
Db 1 SFSQNPVLRKHQR 14
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RESULT 3
US-10-006-091-1
; Sequence 1, Application US/10006091
; Patent No. US20020102730A1
; GENERAL INFORMATION:
; APPLICANT: Cho, Myung-Sam
; APPLICANT: Chan, Sham-Yuen
; APPLICANT: Kelsey, William
; APPLICANT: Yee, Helena
; TITLE OF INVENTION: Expression System for Factor VIII
; FILE REFERENCE: MSB-7255.1
; CURRENT APPLICATION NUMBER: US/10/006,091
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human factor VIII sequence
US-10-006-091-1
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```
Query Match
Best Local Similarity 100.0%; Score 75; DB 12; Length 1438;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 SFSQNPVLRKHQR 14
Db 741 SFSQNPVLRKHQR 754
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RESULT 4
US-10-047-257-1
; Sequence 1, Application US/10047257
; Patent No. US20020115152A1
; GENERAL INFORMATION:
; APPLICANT: Cho, Myung-Sam
; APPLICANT: Chan, Sham-Yuen
; APPLICANT: Kelsey, William
```

```
; APPLICANT: Yee, Helena
; TITLE OF INVENTION: Expression System for Factor VIII
; FILE REFERENCE: MSB-7255.2
; CURRENT APPLICATION NUMBER: US/10/047,257
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
US-10-047-257-1
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```
Query Match
Best Local Similarity 100.0%; Score 75; DB 12; Length 1438;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 SFSQNPVLRKHQR 14
Db 741 SFSQNPVLRKHQR 754
```

```
RESULT 5
US-09-957-641-2
; Sequence 2, Application US/09957641
; Publication No. US20020182670A1
; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: MODIFIED FACTOR VIII
; FILE REFERENCE: 75-00
; CURRENT APPLICATION NUMBER: US/09/957,641
; CURRENT FILING DATE: 2001-09-16
; PRIOR APPLICATION NUMBER: US 60/234047
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: US 60/236460
; PRIOR FILING DATE: 2000-09-29
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2
; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-957-641-2
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Query Match
Best Local Similarity 86.7%; Score 65; DB 9; Length 2332;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 3 SQNPVLRKHQR 14
Db 1637 SQNPVLRKHQR 1648
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```
RESULT 6
US-10-095-718-2
; Sequence 2, Application US/10095718
; Patent No. US20020131956A1
; GENERAL INFORMATION:
; APPLICANT: Walsh, Christopher
; APPLICANT: Chao, Hengjun
; APPLICANT: Burslein, Haim
; APPLICANT: Lynch, Carmel
; APPLICANT: Stepan, Tony
; APPLICANT: Munson, Keith
; TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and
; FILE REFERENCE: 35052/204375
; CURRENT APPLICATION NUMBER: US/10/095,718
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/689,430
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PRIOR FILING DATE: 2001-08-22  
PRIOR APPLICATION NUMBER: 60/158,780  
PRIOR FILING DATE: 1999-10-12  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 1471  
TYPE: PRT  
ORGANISM: Homo sapiens B-domain deleted factor VIII  
FEATURE:  
OTHER INFORMATION: Homo sapiens BDD FVIII  
US-10-095-718-2

Query Match 77.3%; Score 58; DB 12; Length 1471;  
Best Local Similarity 50.0%; Pred. No. 0.08;  
Matches 14; Conservative 0; Mismatches 0; Indels 14; Gaps 1;

QY 1 SFSQN-----PPVLRHR 14  
Db 760 SFSQNSRHPSTROKOFNATPPVLRHR 767

RESULT 7  
US-09-748-062-30  
Sequence 30, Application US/09748062  
Patent No. US20010016340A1  
GENERAL INFORMATION:  
APPLICANT: CHAPMAN, BARBARA  
BURKE, RAE LYNN  
RASMUSSEN, MIRELLA EZBAN  
MIKELSON, JAN MOLLER  
TITLE OF INVENTION: PROTEIN COMPLEXES HAVING FACTOR VIII:C  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: REED & ROBINS  
STREET: 285 HAMILTON AVENUE, SUITE 200  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/748,062  
FILING DATE: 22-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/441,943  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 822,989  
FILING DATE: 27-JAN-1986  
ATTORNEY/AGENT INFORMATION:  
NAME: BAROVSKY, KENNETH  
REGISTRATION NUMBER: 36,442  
REFERENCE/DOCKET NUMBER: 2300-0048.10  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 327-3400  
TELEFAX: (415) 327-3231  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 34 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 30:  
US-09-748-062-30

Query Match 73.3%; Score 55; DB 10; Length 34;  
Best Local Similarity 41.2%; Pred. No. 0.0046;

Matches 14; Conservative 0; Mismatches 0; Indels 20; Gaps 1;

QY 1 SFSQN-----PPVLRHR 14  
Db 1 SFSQNSRHPSTROKOFNATPPVLRHR 34

RESULT 8  
US-09-748-062-34  
Sequence 34, Application US/09748062  
Patent No. US20010016340A1  
GENERAL INFORMATION:  
APPLICANT: CHAPMAN, BARBARA  
BURKE, RAE LYNN  
RASMUSSEN, MIRELLA EZBAN  
MIKELSON, JAN MOLLER  
TITLE OF INVENTION: PROTEIN COMPLEXES HAVING FACTOR VIII:C  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: REED & ROBINS  
STREET: 285 HAMILTON AVENUE, SUITE 200  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/748,062  
FILING DATE: 22-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/441,943  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 822,989  
FILING DATE: 27-JAN-1986  
ATTORNEY/AGENT INFORMATION:  
NAME: BAROVSKY, KENNETH  
REGISTRATION NUMBER: 36,442  
REFERENCE/DOCKET NUMBER: 2300-0048.10  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 327-3400  
TELEFAX: (415) 327-3231  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 34:  
US-09-748-062-34

Query Match 66.7%; Score 50; DB 10; Length 9;  
Best Local Similarity 100.0%; Pred. No. 9.8e+04;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 PPVLRHR 14  
Db 1 PPVLRHR 9

RESULT 9  
US-09-796-692-2429  
Sequence 2429, Application US/09796692  
Publication No. US20020198362A1  
GENERAL INFORMATION:  
APPLICANT: Gaigier, Alexander  
APPLICANT: Aigate, Paul A.

APPLICANT: Mannion, Jane  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY  
FILE REFERENCE: 2077 001200  
CURRENT APPLICATION NUMBER: US/09/796,692  
CURRENT FILING DATE: 2001-03-01  
PRIOR APPLICATION NUMBER: 60/186,126  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: 60/190,479  
PRIOR FILING DATE: 2000-03-17  
PRIOR APPLICATION NUMBER: 60/200,545  
PRIOR FILING DATE: 2000-04-27  
PRIOR APPLICATION NUMBER: 60/200,303  
PRIOR FILING DATE: 2000-04-28  
PRIOR APPLICATION NUMBER: 60/200,779  
PRIOR FILING DATE: 2000-04-28  
PRIOR APPLICATION NUMBER: 60/200,999  
PRIOR FILING DATE: 2000-05-01  
PRIOR APPLICATION NUMBER: 60/202,084  
PRIOR FILING DATE: 2000-05-04  
PRIOR APPLICATION NUMBER: 60/206,201  
PRIOR FILING DATE: 2000-05-22  
PRIOR APPLICATION NUMBER: 60/218,950  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: 60/222,903  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: 60/223,416  
PRIOR FILING DATE: 2000-08-04  
PRIOR APPLICATION NUMBER: 60/223,378  
PRIOR FILING DATE: 2000-08-07  
NUMBER OF SEQ ID NOS: 9597  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2429  
LENGTH: 79  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: variant  
LOCATION: (1)...(79)  
OTHER INFORMATION: Xaa = Any amino acid  
US-09-796-692-2429

Query Match 50.7%; Score 38; DB 9; Length 79;  
Best Local Similarity 77.8%; Pred. No. 7.4;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SFSQNPVL 9  
DB 43 SFSNPPL 51

RESULT 10  
US-10-027-806-24  
Sequence 24, Application US/10027806  
Patent No. US20020160476A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Feldman, Robert A.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/027,806  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 24  
LENGTH: 269  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-027-806-24

Query Match 50.7%; Score 38; DB 9; Length 269;  
Best Local Similarity 63.6%; Pred. No. 27;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 ONPVLKRHR 14  
DB 50 ONPVLORGR 60

RESULT 11  
US-10-034-623-24  
Sequence 24, Application US/10034623  
Publication No. US20020198365A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/034,623  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: 60/102,294  
PRIOR FILING DATE: 1998-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 24  
LENGTH: 269  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-034-623-24

Query Match 50.7%; Score 38; DB 9; Length 269;  
Best Local Similarity 63.6%; Pred. No. 27;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 ONPVLKRHR 14  
DB 50 ONPVLORGR 60

RESULT 12  
US-10-027-806-56  
Sequence 56, Application US/10027806  
Patent No. US20020160476A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Feldman, Robert A.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/027,806  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 56  
LENGTH: 273  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-027-806-56

Query Match 50.7%; Score 38; DB 9; Length 273;  
Best Local Similarity 63.6%; Pred. No. 28;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 ONPVLKRHR 14  
DB 54 ONPVLORGR 64

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? RESULT 13
? US-10-034-623-56
? Sequence 56, Application US/10034623
? Publication No. US20020198365A1
? GENERAL INFORMATION:
? APPLICANT: Swanson, Ronald V.
? APPLICANT: Feldman, Robert A.
? APPLICANT: Schleper, Christa
? TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
? FILE REFERENCE: DORP.002A
? CURRENT APPLICATION NUMBER: US/10/034,623
? CURRENT FILING DATE: 2001-12-21
? PRIOR APPLICATION NUMBER: 09/408,020
? PRIOR FILING DATE: 1999-09-29
? PRIOR APPLICATION NUMBER: 60/102,294
? PRIOR FILING DATE: 1998-09-29
? NUMBER OF SEQ ID NOS: 123
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 56
? LENGTH: 273
? TYPE: PRT
? ORGANISM: Cenarchaeum symbiosum
? US-10-034-623-56

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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 04:58:21 ; Search time 47.5 Seconds  
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Title: US-09-740-211-13\_COPY\_3000\_4000

Perfect score: 1001

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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapept 1.0

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Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

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3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1001	100.0	4629	US-08-484-891-7	Sequence 7, Appl1
2	1001	100.0	4670	US-08-717-294-41	Sequence 41, Appl1
3	1001	100.0	4999	US-09-470-618-14	Sequence 14, Appl1
4	1001	100.0	4999	US-09-364-862-14	Sequence 14, Appl1
5	1001	100.0	5035	US-08-882-083-1	Sequence 1, Appl1
6	1001	100.0	5035	US-08-558-107-1	Sequence 1, Appl1
7	1001	100.0	5035	US-09-243-559-1	Sequence 1, Appl1
8	1001	100.0	7056	US-08-121-202-1	Sequence 1, Appl1
9	1001	100.0	8241	US-08-366-851A-1	Sequence 1, Appl1
10	1001	100.0	8967	US-07-864-004B-3	Sequence 3, Appl1
11	1001	100.0	9009	US-08-251-937A-3	Sequence 3, Appl1
12	1001	100.0	9009	US-08-212-133A-1	Sequence 1, Appl1
13	1001	100.0	9009	US-08-474-503-1	Sequence 1, Appl1
14	1001	100.0	9009	US-08-670-707A-1	Sequence 1, Appl1
15	1001	100.0	9009	US-09-037-601-1	Sequence 1, Appl1
16	1001	100.0	9009	US-09-315-179-1	Sequence 1, Appl1
17	1001	100.0	9009	US-09-523-656-1	Sequence 1, Appl1
18	1001	100.0	9009	PCT-US93-03275-3	Sequence 3, Appl1
19	1001	100.0	9009	PCT-US94-13200-1	Sequence 1, Appl1
20	1001	100.0	9354	US-08-683-839B-2	Sequence 2, Appl1
21	1001	100.0	11933	US-09-470-618-13	Sequence 13, Appl1
22	1001	100.0	11933	US-09-364-862-13	Sequence 13, Appl1
23	1001	100.0	6999	US-08-276-594A-1	Sequence 1, Appl1
24	997.8	99.7	7032	US-08-324-867-1	Sequence 1, Appl1
25	858.6	85.8	7493	US-08-212-133A-7	Sequence 7, Appl1
26	831.4	83.1	7493	US-08-474-503-5	Sequence 5, Appl1
27	831.4	83.1	7493	US-08-474-503-5	Sequence 5, Appl1

28 831.4 83.1 7493 2 US-08-670-707A-5  
29 831.4 83.1 7493 4 US-09-037-601-5  
30 831.4 83.1 7493 4 US-09-315-179-5  
31 831.4 83.1 7493 5 PCT-US94-13200-5  
32 810.6 81.0 4404 4 US-09-523-656-37  
33 809 80.8 4334 2 US-08-670-707A-38  
34 809 80.8 4334 4 US-09-037-601-38  
35 809 80.8 4334 4 US-09-315-179-38  
36 809 80.8 6402 2 US-08-670-707A-36  
37 809 80.8 6402 4 US-09-037-601-36  
38 809 80.8 6402 4 US-09-315-179-36  
39 809 80.8 6402 4 US-09-523-656-29  
40 612.2 61.2 4451 3 US-08-717-294-42  
41 147.6 14.7 6909 2 US-08-804-196-1  
42 147.6 14.7 6909 2 US-08-658-340-1  
43 147.6 14.7 6909 3 US-08-746-111-26  
44 140 14.0 6585 3 US-08-746-111-4  
45 137.4 13.7 2012 4 US-09-149-476-132

#### ALIGNMENTS

RESULT 1  
US-08-484-891-7  
Sequence 7, Application US/08484891  
Patent No. 5935935  
GENERAL INFORMATION:  
APPLICANT: Connolly, Sheila  
APPLICANT: Kaleko, Michael  
APPLICANT: Smith, Theodore  
TITLE OF INVENTION: Adenoviral Vectors for  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan,  
ADDRESSEE: Cecchi, Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,891  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/218,335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074,920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24,025  
REFERENCE/DOCKET NUMBER: 271010-273  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4629 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA primer  
FEATURE:  
NAME/KEY: Factor VIII cDNA with  
NAME/KEY: B domain deleted

Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 37, Appl1  
Sequence 38, Appl1  
Sequence 38, Appl1  
Sequence 38, Appl1  
Sequence 36, Appl1  
Sequence 36, Appl1  
Sequence 36, Appl1  
Sequence 29, Appl1  
Sequence 42, Appl1  
Sequence 1, Appl1  
Sequence 1, Appl1  
Sequence 26, Appl1  
Sequence 4, Appl1  
Sequence 132, App

US-08-484-891-7

Query Match 100.0%; Score 1001; DB 2; Length 4629;  
Best Local Similarity 100.0%; Pred. No. 5,6e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGACACTAAATGAACTTTGGGACTCTGGGGCCATATATAAGC 60  
DB 2652 GCCCTTATACCGTGGAGACACTAAATGAACTTTGGGACTCTGGGGCCATATATAAGC 2711  
QY 61 AGAGTGAAGATATATATCATGTAATTCAGAAATCAGGCTCTGCTGCTATTCCT 120  
DB 2712 AGAGTGAAGATATATATCATGTAATTCAGAAATCAGGCTCTGCTGCTATTCCT 2771  
QY 121 CTATTCAGCTTATTTCTTATATGAGGAAGATCAGAGCAAGGACCAACCTAGAAAAA 180  
DB 2772 CTATTCAGCTTATTTCTTATATGAGGAAGATCAGAGCAAGGACCAACCTAGAAAAA 2831  
QY 181 CTTTGTCAGGCTAATGAAACCAAACTTACTTTGGAAGTGCACATCATATGAGCACC 240  
DB 2832 CTTTGTCAGGCTAATGAAACCAAACTTACTTTGGAAGTGCACATCATATGAGCACC 2891  
QY 241 CACTAAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAAAA 300  
DB 2892 CACTAAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAAAA 2951  
QY 301 AGATGTCACCTCAGGCTGATTTGACCCCTTCTGCTGCCACACTAACACTGAACCC 360  
DB 2952 AGATGTCACCTCAGGCTGATTTGACCCCTTCTGCTGCCACACTAACACTGAACCC 3011  
QY 361 TGCCTCATGGGAGACAGTACAGTACAGGATTTGCTGCTGTTTTCACCATCTTGATGA 420  
DB 3012 TGCCTCATGGGAGACAGTACAGTACAGGATTTGCTGCTGTTTTCACCATCTTGATGA 3071  
QY 421 GACCAAAAGCTGTAATCTCACTGAAATATGGAAGAACTGCAAGGCTCCCTGCAATAT 480  
DB 3072 GACCAAAAGCTGTAATCTCACTGAAATATGGAAGAACTGCAAGGCTCCCTGCAATAT 3121  
QY 481 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATGCTTCCATGCAATGCTGCTACAT 540  
DB 3132 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATGCTTCCATGCAATGCTGCTACAT 3191  
QY 541 AATGATACCTACTACTGCTAGTAATGGCTCAGGATCAAGGATGATGGATGATGCT 600  
DB 3192 AATGATACCTACTACTGCTAGTAATGGCTCAGGATCAAGGATGATGGATGATGCT 3251  
QY 601 CAGCATGGGAGCAATGAAATCCATCTTATTCATTTCAAGTGGAGATGTTCTACTGT 660  
DB 3252 CAGCATGGGAGCAATGAAATCCATCTTATTCATTTCAAGTGGAGATGTTCTACTGT 3311  
QY 661 ACGAAAAAAGAGAGTATTAATGAGCTGTACATCTCTATCCAGTGTGTTTGGAGAC 720  
DB 3312 ACGAAAAAAGAGAGTATTAATGAGCTGTACATCTCTATCCAGTGTGTTTGGAGAC 3371  
QY 721 AGTGAATGATTCACATCAAAAGCTGGAATTTGGGAGTGAATGCTTATTTGGAGACA 780  
DB 3372 AGTGAATGATTCACATCAAAAGCTGGAATTTGGGAGTGAATGCTTATTTGGAGACA 3431  
QY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAAGTGCAGACTCCCT 840  
DB 3432 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAAGTGCAGACTCCCT 3491  
QY 841 GGGATGCTTCTGAGACACTTTAGAGATTTTCAAGTTTCAAGCTTCAGAGCAATAATGCA 900  
DB 3492 GGGATGCTTCTGAGACACTTTAGAGATTTTCAAGTTTCAAGCTTCAGAGCAATAATGCA 3551  
QY 901 GTGGGCCCCAAAGGCTGAGACCTTATTTCCGAGTCAATGCTGCTGAGACACCA 960  
DB 3552 GTGGGCCCCAAAGGCTGAGACCTTATTTCCGAGTCAATGCTGCTGAGACACCA 3611  
QY 961 GGAGCCCTTTTCTTGATCAAGGTGATCTGTGGCACCA 1001  
DB 3612 GGAGCCCTTTTCTTGATCAAGGTGATCTGTGGCACCA 3652

RESULT 2

US-08-717-294-41  
Sequence 41, Application US/08717294  
Patent No. 611418

GENERAL INFORMATION:

APPLICANT: SEED, BRIAN  
APPLICANT: HAAS, JÜRGEN  
TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF  
NUMBER OF SEQUENCES: 110  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/717,294  
FILING DATE: 20-SEP-1996  
CLASSIFICATION: 435  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:

FILING DATE:  
NAME: Elbing, Karen L.  
REGISTRATION NUMBER: 35,238  
REFERENCE/DOCKET NUMBER: 00786/345001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045

TELEX:

INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4670 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA

US-08-717-294-41

Query Match 100.0%; Score 1001; DB 3; Length 4670;  
Best Local Similarity 100.0%; Pred. No. 5,6e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGACACTAAATGAACTTTGGGACTCTGGGGCCATATATAAGC 60  
DB 2678 GCCCTTATACCGTGGAGACACTAAATGAACTTTGGGACTCTGGGGCCATATATAAGC 2737  
QY 61 AGAGTGAAGATATATATCATGTAATTCAGAAATCAGGCTCTGCTGCTATTCCT 120  
DB 2738 AGAGTGAAGATATATATCATGTAATTCAGAAATCAGGCTCTGCTGCTATTCCT 2797  
QY 121 CTATTCAGCTTATTTCTTATATGAGGAAGATCAGAGCAAGGACCAACCTAGAAAAA 180  
DB 2798 CTATTCAGCTTATTTCTTATATGAGGAAGATCAGAGCAAGGACCAACCTAGAAAAA 2857  
QY 181 CTTTGTCAGGCTAATGAAACCAAACTTACTTTGGAAGTGCACATCATATGAGCACC 240  
DB 2858 CTTTGTCAGGCTAATGAAACCAAACTTACTTTGGAAGTGCACATCATATGAGCACC 2917  
QY 241 CACTAAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAAAA 300  
DB 2918 CACTAAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAAAA 2977  
QY 301 AGATGTCACCTCAGGCTGATTTGACCCCTTCTGCTGCCACACTAACACTGAACCC 360



|||||  
Db 2978 AGATGTGACCTAGGCGCTATGTGACCCCTTGTGTCGCCACATACACACTGSAACC 3037  
QY 361 TGCCTATGGGAGACAGTACAGTACAGGATTTGCTGTTTTACCACTTTGATGA 420  
Db 3038 TCTCATGTGGAGACAGTACAGTACAGGATTTGCTGTTTTACCACTTTGATGA 3097  
QY 421 GACCAAAAGCTGTCTCTACATGAAATATGAAAGAAATGACAGGCTCCCTGCAATAT 480  
Db 3098 GACCAAAAGCTGTCTCTACATGAAATATGAAAGAAATGACAGGCTCCCTGCAATAT 3157  
QY 481 CCAGATGGAAGATCCACATTTTAAAGAGATTTGCTTCCATGCAATCAATGGCTACAT 540  
Db 3158 CCAGATGGAAGATCCACATTTTAAAGAGATTTGCTTCCATGCAATCAATGGCTACAT 3217  
QY 541 AATGATACACTACTGCTTATGTAATGCTCAGATCAAAAGATTCATGCTATCTCT 600  
Db 3218 AATGATACACTACTGCTTATGTAATGCTCAGATCAAAAGATTCATGCTATCTCT 3277  
QY 601 CAGCATGGGACAGCATGAAACATCTTATTCATTTCAAGTGGACATGTTGCTACTGT 660  
Db 3278 CAGCATGGGACAGCATGAAACATCTTATTCATTTCAAGTGGACATGTTGCTACTGT 3337  
QY 661 ACCAAAAAGAGAGATATAAATGCACTGTACATCTCTATCCAGGTGTTTTGAGAC 720  
Db 3338 ACCAAAAAGAGAGATATAAATGCACTGTACATCTCTATCCAGGTGTTTTGAGAC 3397  
QY 721 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGCTGCAATGCTTATTTGGGAGCA 780  
Db 3398 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGCTGCAATGCTTATTTGGGAGCA 3457  
QY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATAGTGTCAAGTCCCT 840  
Db 3458 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATAGTGTCAAGTCCCT 3517  
QY 841 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGAGCA 900  
Db 3518 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGAGCA 3577  
QY 901 GTGGGCCCCCAAGCTGGCCAGACTCATATTCGCGATCAATCATGCTGGAGACCAA 960  
Db 3578 GTGGGCCCCCAAGCTGGCCAGACTCATATTCGCGATCAATCATGCTGGAGACCAA 3637  
QY 961 GGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGCACCAA 1001  
Db 3638 GGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGCACCAA 3678

RESULT 3  
US-09-470-618-14  
: Sequence 14, Application US/09470618  
: Patent No. 6200560  
: GENERAL INFORMATION:  
: APPLICANT: Couto, Linda B.  
: APPLICANT: Colosi, Peter C.  
: TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
: FILE REFERENCE: by Target Cells  
: CURRENT APPLICATION NUMBER: US/09/470,618  
: CURRENT FILING DATE: 1999-12-22  
: EARLIER APPLICATION NUMBER: 09/364,862  
: EARLIER FILING DATE: 1999-07-30  
: EARLIER APPLICATION NUMBER: 60/125,974  
: EARLIER FILING DATE: 1999-03-24  
: EARLIER APPLICATION NUMBER: 60/104,994  
: EARLIER FILING DATE: 1998-10-20  
: NUMBER OF SEQ ID NOS: 15  
: SOFTWARE: PatentIn Ver. 2.0  
: SEQ ID NO 14  
: TYPE: DNA  
: ORGANISM: Artificial Sequence  
: FEATURE:

: OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-470-618-14  
Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 5,8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCCCTTATACCGTATGACATTAATGAACATTTGGGACCTCTGGGGCCATATTAAGAGC 60  
Db 3025 GCCCTTATACCGTATGACATTAATGAACATTTGGGACCTCTGGGGCCATATTAAGAGC 3084  
QY 61 AGAAGTTGAAGATTAATTCATGTTACTTTAGAAATCAGGCTCTGCTCTATTCCTT 120  
Db 3085 AGAAGTTGAAGATTAATTCATGTTACTTTAGAAATCAGGCTCTGCTCTATTCCTT 3144  
QY 121 CTATTTAGCTTTATTTCTTATGAGAAAGATCAGAGGCAAGAGACAGAACTGAAAAA 180  
Db 3145 CTATTTAGCTTTATTTCTTATGAGAAAGATCAGAGGCAAGAGACAGAACTGAAAAA 3204  
QY 181 CTTTGTCAAGCCTTAATGAACCAAAACTTACTTTTGGAAAGTGCATCATATATGACCC 240  
Db 3205 CTTTGTCAAGCCTTAATGAACCAAAACTTACTTTTGGAAAGTGCATCATATATGACCC 3264  
QY 241 CACTAAAGATCAGTTTACTGCAAAAGCCTGGCTTATTTCTGTAGTGTGACCTGAAAA 300  
Db 3265 CACTAAAGATCAGTTTACTGCAAAAGCCTGGCTTATTTCTGTAGTGTGACCTGAAAA 3324  
QY 301 AGATGTCACTCAGGCTGATTTGACACCTCTTGTGTGCGACACATTAACACTGAACC 360  
Db 3325 AGATGTCACTCAGGCTGATTTGACACCTCTTGTGTGCGACACATTAACACTGAACC 3384  
QY 361 TGCATGATGGGAGACAGTACAGAGATTTGCTCTGTTTTTCCACTCTTTGATGA 420  
Db 3385 TGCATGATGGGAGACAGTACAGAGATTTGCTCTGTTTTTCCACTCTTTGATGA 3444  
QY 421 GACCAAAAGCTGTACTTCACTGAAATATGAAAGAACTGCAAGGCTCCTGCAATAT 480  
Db 3445 GACCAAAAGCTGTACTTCACTGAAATATGAAAGAACTGCAAGGCTCCTGCAATAT 3504  
QY 481 CCAGATGGAAGATCCCACTTTTAAAGAGATTTACGCTTCATGACATCAATGGCTACAT 540  
Db 3505 CCAGATGGAAGATCCCACTTTTAAAGAGATTTACGCTTCATGACATCAATGGCTACAT 3564  
QY 541 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGAGATTTGATGATCTGCT 600  
Db 3565 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGAGATTTGATGATCTGCT 3624  
QY 601 CAGCATGGGACAGCAATGAACATCATCTTATTCATTTAGTGGACATGTTGCTACTGT 660  
Db 3625 CAGCATGGGACAGCAATGAACATCATCTTATTCATTTAGTGGACATGTTGCTACTGT 3684  
QY 661 ACAGAAAAAGAGAGATTAATAATGSCAGCTGCAATCTCATCCAGGCTTTTGGAGC 720  
Db 3685 ACAGAAAAAGAGAGATTAATAATGSCAGCTGCAATCTCATCCAGGCTTTTGGAGC 3744  
QY 721 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGCTGGAATGCTTTATTTGGGAGCA 780  
Db 3745 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGCTGGAATGCTTTATTTGGGAGCA 3804  
QY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATATGATGTCAGATCCCT 840  
Db 3805 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATATGATGTCAGATCCCT 3864  
QY 841 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTCAGAGACAATATGAGCA 900  
Db 3865 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTCAGAGACAATATGAGCA 3924  
QY 901 GTGGGCCCCCAAGCTGGCCAGACTCATATTCGCGATCAATCATGCTGGAGACCAA 960  
Db 3925 GTGGGCCCCCAAGCTGGCCAGACTCATATTCGCGATCAATCATGCTGGAGACCAA 3984  
QY 961 GGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGCACCAA 1001  
|||||

Db 3985 GGAGCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAA 4025

RESULT 4  
US-09-364-862-14

; Sequence 14, Application US/09364862  
; Patent No. 6221349  
; GENERAL INFORMATION:  
; APPLICANT: Couto, Linda B.  
; APPLICANT: Colosi, Peter C.  
; TITLE OF INVENTION: ADEMO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII  
; TITLE OF INVENTION: BY TARGET  
; FILE REFERENCE: AVIGEN-03743  
; CURRENT APPLICATION NUMBER: US/09/364, 862  
; CURRENT FILING DATE: 1999-07-30  
; EARLIER APPLICATION NUMBER: 60/125, 974  
; EARLIER FILING DATE: 1999-03-24  
; EARLIER APPLICATION NUMBER: 60/104, 994  
; EARLIER FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 4999  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-364-862-14

Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 5,8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGCAACATAATGAACATTGGGAGCTCGGGGCCATATATAAGAGC 60  
Db 3025 GCCCTTATACCGTGGCAACATAATGAACATTGGGAGCTCGGGGCCATATATAAGAGC 3084  
QY 61 AGAGTGAAGATATATCATGTAATTCAGAAATCAGGCGCTGCTCTATTCCTT 120  
Db 3085 AGAGTGAAGATATATCATGTAATTCAGAAATCAGGCGCTGCTCTATTCCTT 3144  
QY 121 CTATTTAGCCTTATTTCTTATGAGAAATCAGAGGCAAGAGACAGACCTAGAAAAA 180  
Db 3145 CTATTTAGCCTTATTTCTTATGAGAAATCAGAGGCAAGAGACAGACCTAGAAAAA 3204  
QY 181 CTTTGTAAGCCTATGAAACCAAACTTCTTTGGAAGTGAACATCATATGGCACC 240  
Db 3205 CTTTGTAAGCCTATGAAACCAAACTTCTTTGGAAGTGAACATCATATGGCACC 3264  
QY 241 CACTAAGATGAGTTGACTGCAAGGCTGAGCTTATTTCTGATGTTGACCTGAAAA 300  
Db 3265 CACTAAGATGAGTTGACTGCAAGGCTGAGCTTATTTCTGATGTTGACCTGAAAA 3324  
QY 301 AGATGTCAGCTCAGGCTGATGGACCCCTTGTGCTGCCACATCACTACATGAAACC 360  
Db 3325 AGATGTCAGCTCAGGCTGATGGACCCCTTGTGCTGCCACATCACTACATGAAACC 3384  
QY 361 TGCCTATGGGAGCAAGTGAAGAGAGATTGCTCTGTTTTCACATCTTTGATGA 420  
Db 3385 TGCCTATGGGAGCAAGTGAAGAGAGATTGCTCTGTTTTCACATCTTTGATGA 3444  
QY 421 GACCAAAAGCTGTACTTCACTGTAATAATATGAAGAAGAACTGCAAGGCTCCCTGCAATAT 480  
Db 3445 GACCAAAAGCTGTACTTCACTGTAATAATATGAAGAAGAACTGCAAGGCTCCCTGCAATAT 3504  
QY 481 CCAGATGGAAGATCCACTTTTAAAGAAATATCGCTTCCATGCAATCAATGGCTACAT 540  
Db 3505 CCAGATGGAAGATCCACTTTTAAAGAAATATCGCTTCCATGCAATCAATGGCTACAT 3564  
QY 541 AATGATACACTACCTGCTGCTAGTAATGCTGCAAGATCAAGATTCGATGATCTGCT 600  
Db 3565 AATGATACACTACCTGCTGCTAGTAATGCTGCAAGATCAAGATTCGATGATCTGCT 3624

QY 601 CAGCATGGGAGCAATGAAGAAACATCCATTCATATTCATGTCAGTGCATGCTCTGCT 660  
Db 3625 CAGCATGGGAGCAATGAAGAAACATCCATTCATATTCATGTCAGTGCATGCTCTGCT 3684  
QY 661 ACAGAAAAAGAGAGATATTAATGAGCTGATACATCTCTATCCAGAGTGTGTTGAGAC 720  
Db 3685 ACAGAAAAAGAGAGATATTAATGAGCTGATACATCTCTATCCAGAGTGTGTTGAGAC 3744  
QY 721 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGGGAATGCTTATTTGGGAGCA 780  
Db 3745 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGGGAATGCTTATTTGGGAGCA 3804  
QY 781 TCTACATGCTGGGATGAGCAGACATTTTCTGCTGATACAGCAATAGTCTACACTCCCT 840  
Db 3805 TCTACATGCTGGGATGAGCAGACATTTTCTGCTGATACAGCAATAGTCTACACTCCCT 3864  
QY 841 GGGATGCTCTTGGACACATTAAGATTTTACATTTACAGCTTCAAGCAATATGAGACA 900  
Db 3865 GGGATGCTCTTGGACACATTAAGATTTTACATTTACAGCTTCAAGCAATATGAGACA 3924  
QY 901 GTGGGGCCCAAGCTGGCAGACTTCATATTCGGGATCAATCAATGCTGGAGCACCAA 960  
Db 3925 GTGGGGCCCAAGCTGGCAGACTTCATATTCGGGATCAATCAATGCTGGAGCACCAA 3984  
QY 961 GGAGCCCTTTCTTGATCAAGGTGAGATCTGTGGCACCAA 1001  
Db 3985 GGAGCCCTTTCTTGATCAAGGTGAGATCTGTGGCACCAA 4025

RESULT 5  
US-08-882-083-1  
; Sequence 1, Application US/08882083  
; Patent No. 5869292

; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,083  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558,107  
; FILING DATE: 13-NOV-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33,715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELE: 904136  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5035 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS



QY 361 TGTCTATGGGAGAGAGTACAGAGATTTGCTCTGTTTTTCCACCATCTTGTATGA 420  
DB 3616 TGTCTATGGGAGAGAGTACAGAGATTTGCTCTGTTTTTCCACCATCTTGTATGA 3675  
QY 421 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 480  
DB 3676 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 3735  
QY 481 CCAGATGAGATCCCACTTTTAAAGAAATATTCGCTCCATCCATCAATGGCTCAT 540  
DB 3736 CCAGATGAGATCCCACTTTTAAAGAAATATTCGCTCCATCCATCAATGGCTCAT 3795  
QY 541 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATCTGCT 600  
DB 3796 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATCTGCT 3855  
QY 601 CAGCATGGGAGCAATGAAACATCCATTCATTCATTCATTCAGTGGACATGTTCTACTGT 660  
DB 3856 CAGCATGGGAGCAATGAAACATCCATTCATTCATTCATTCAGTGGACATGTTCTACTGT 3915  
QY 661 ACGAAAAAGAGAGATATAAATGAGCATGTACATCTCATCCAGCTGTTTTGAGAC 720  
DB 3916 ACGAAAAAGAGAGATATAAATGAGCATGTACATCTCATCCATTCATTCAGTGTGAGAC 3975  
QY 721 AGTGAATGTTACCATCAAGCTGGAATTTGGGAGTGAATGCTTATTTGGCAGCA 780  
DB 3976 AGTGAATGTTACCATCAAGCTGGAATTTGGGAGTGAATGCTTATTTGGCAGCA 4035  
QY 781 TCTCATGCTGGGATGAGCACACTTTTCTGCTGTACAGCAATATGTTGACAGCTCCCT 840  
DB 4036 TCTCATGCTGGGATGAGCACACTTTTCTGCTGTACAGCAATATGTTGACAGCTCCCT 4095  
QY 841 GGAATGAGCTCTGAGACATTAAGATTTTGGATGATGACCTTCAGAGACATATGAGCA 900  
DB 4096 GGAATGAGCTCTGAGACATTAAGATTTTGGATGATGACCTTCAGAGACATATGAGCA 4155  
QY 901 GTGGGCCCCAAAGCTGGCCAGACTTCAATTCGATCAATCAATGCTGGAGACACAA 960  
DB 4156 GTGGGCCCCAAAGCTGGCCAGACTTCAATTCGATCAATCAATGCTGGAGACACAA 4215  
QY 961 GGAGCCCTTTCTGTGATCAAGGTGATCTGTGGACACAA 1001  
DB 4216 GGAGCCCTTTCTGTGATCAAGGTGATCTGTGGACACAA 4256

RESULT 7  
US-09-243-539-1  
Sequence 1, Application US/09243539  
Patent No. 6130203  
GENERAL INFORMATION:  
APPLICANT: VOORBERG, Johannes J.  
TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/243,539  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/558,107  
FILING DATE: 13-NOV-1995

ATTORNEY/AGENT INFORMATION:  
NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 35..5017  
US-09-243-539-1

Query Match 100.0%; Score 1001; DB 3; Length 5035;  
Best local similarity 100.0%; Pred. No. 5.8e-310;  
Matches 1001; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGGTGAGAACTAATGAACATTTGGGACTCTGGGGCCATATATGAAGC 60  
DB 3256 GCCCTTATACCGGTGAGAACTAATGAACATTTGGGACTCTGGGGCCATATATGAAGC 3315  
QY 61 AGAAGTTGAAGATATATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 120  
DB 3316 AGAAGTTGAAGATATATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3375  
QY 121 CTATCTACCTTATATTTCTATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180  
DB 3376 CTATCTACCTTATATTTCTATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3435  
QY 181 CTTTGTCAAGCTAATGAACCAAACTTACTTTTGAAGAGTGAACATCATATGAGCACC 240  
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QY 301 AGATGTGACACTGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360  
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QY 361 TGTCTATGGGAGAGAGTACAGAGATTTGCTCTGTTTTTCCACCATCTTGTATGA 420  
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QY 421 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 480  
DB 3676 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 480  
QY 481 CCAGATGAGATCCCACTTTTAAAGAAATATTCGCTCCATCCATCAATGGCTCAT 540  
DB 3736 CCAGATGAGATCCCACTTTTAAAGAAATATTCGCTCCATCCATCAATGGCTCAT 540  
QY 541 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATCTGCT 600  
DB 3796 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATCTGCT 600  
QY 601 CAGCATGGGAGCAATGAAACATCCATTCATTCATTCATTCAGTGGACATGTTCTACTGT 660  
DB 3856 CAGCATGGGAGCAATGAAACATCCATTCATTCATTCATTCAGTGGACATGTTCTACTGT 660  
QY 661 ACGAAAAAGAGAGATATAAATGAGCATGTACATCTCATCCAGCTGTTTTGAGAC 720  
DB 3916 ACGAAAAAGAGAGATATAAATGAGCATGTACATCTCATCCATTCATTCAGTGTGAGAC 720  
QY 721 AGTGAATGTTACCATCAAGCTGGAATTTGGGAGTGAATGCTTATTTGGCAGCA 780  
DB 4216 AGTGAATGTTACCATCAAGCTGGAATTTGGGAGTGAATGCTTATTTGGCAGCA 780



PROCESS FOR THEIR PREPARATION USING GENETICALLY-ENGINEERED CELLS  
AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

NUMBER OF SEQUENCES: 12

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/205,226

FILING DATE: 10-JUN-1988

SEQ ID NO: 1

LENGTH: 8241

Query Match 100.0%; Score 1001; DB 6; Length 8241;

Best Local Similarity 100.0%; Pred. No. 7, 6e-310;

Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAATGAACATTTGGGACTCCTGGGCGCATATATAAGAGC 60  
DB 5298 GCCCTTATACCGTGGAGAACTAATGAACATTTGGGACTCCTGGGCGCATATATAAGAGC 5557  
QY 61 AGAAGTTGAAGATATATCATGTAACTTTGAGAAATCAGGCGCTGCTGCTATTCCTT 120  
DB 5358 AGAAGTTGAAGATATATCATGTAACTTTGAGAAATCAGGCGCTGCTGCTATTCCTT 5417  
QY 121 CTATTCAGCGCTTATTTCTATATGAGAAATCAGGCGCAAGAGAGAGAGAGAGAGAGAGAG 180  
DB 5418 CTATTCAGCGCTTATTTCTATATGAGAAATCAGGCGCAAGAGAGAGAGAGAGAGAGAGAG 5477  
QY 181 CTTTGTACGCGCTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGCGACC 240  
DB 5478 CTTTGTACGCGCTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGCGACC 5537  
QY 241 CACTTAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGGAGAA 300  
DB 5538 CACTTAAGATGATTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGGAGAA 5597  
QY 301 AGATGTGACCTGAGCGCTGATTTGAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 360  
DB 5598 AGATGTGACCTGAGCGCTGATTTGAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 5657  
QY 361 TGCTCATGAGGAG 420  
DB 5658 TGCTCATGAGGAG 5717  
QY 421 GACCAAAAGCTGCTACTTCACTGAAATATGAGAAATGAGAAATGAGAAATGAGAAATGAG 480  
DB 5718 GACCAAAAGCTGCTACTTCACTGAAATATGAGAAATGAGAAATGAGAAATGAGAAATGAG 5777  
QY 481 CCAGATGAGAGATGCGCTTTTAAAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 540  
DB 5778 CCAGATGAGAGATGCGCTTTTAAAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 5837  
QY 541 AATGATACACTACCTGGCTTAAATGAGAGATGAGAAATGAGAAATGAGAAATGAGAAATGAG 600  
DB 5838 AATGATACACTACCTGGCTTAAATGAGAGATGAGAAATGAGAAATGAGAAATGAGAAATGAG 5897  
QY 601 CAGCATGAGGAG 660  
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QY 661 ACAGAAAAAG 720  
DB 5958 ACAGAAAAAG 6017  
QY 721 AGTGAATATGTTACCATCCAAAGCTGGAATTTGGCGGAGAGAGAGAGAGAGAGAGAGAGAG 780  
DB 6018 AGTGAATATGTTACCATCCAAAGCTGGAATTTGGCGGAGAGAGAGAGAGAGAGAGAGAGAG 6077  
QY 781 TCTACATGCTGGAGATGAG 840  
DB 6078 TCTACATGCTGGAGATGAG 6137  
QY 841 GGAAGAGGCTTCTGAG 900  
DB 6138 GGAAGAGGCTTCTGAG 6197

QY 901 GTGGCCCCCAAGCTGGAG 960  
DB 6198 GTGGCCCCCAAGCTGGAG 6257  
QY 961 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGACCAA 1001  
DB 6258 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGACCAA 6298

RESULT 10

US-08-366-851A-1

Sequence 1, Application US/08366851A

Patent No. 5681746

GENERAL INFORMATION:

APPLICANT: Bodner, Mordechai

APPLICANT: De Polo, Nicolas J.

APPLICANT: Hsu, David Chi-Tang

APPLICANT: Chang, Steven

TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Viagene, Inc.

STREET: 11055 Roselle Street

CITY: San Diego

STATE: California

COUNTRY: U.S.A.

ZIP: 92121

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/366,851A

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Chambers, Daniel M.

REGISTRATION NUMBER: 34,561

REFERENCE/DOCKET NUMBER: 930049.438

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 452-1288

TELEFAX: (619) 452-2616

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 8967 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: unknown

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 110..7165

US-08-366-851A-1

Query Match 100.0%; Score 1001; DB 1; Length 8967;  
Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAATGAACATTTGGGACTCCTGGGCGCATATATAAGAGC 60  
DB 5401 GCCCTTATACCGTGGAGAACTAATGAACATTTGGGACTCCTGGGCGCATATATAAGAGC 5460  
QY 61 AGAAGTTGAAGATATATCATGTAACTTTGAGAAATCAGGCGCTGCTGCTATTCCTT 120  
DB 5461 AGAAGTTGAAGATATATCATGTAACTTTGAGAAATCAGGCGCTGCTGCTATTCCTT 5520  
QY 121 CTATTCAGCGCTTATTTCTATATGAGAAATCAGGCGCAAGAGAGAGAGAGAGAGAGAGAG 180  
DB 5521 CTATTCAGCGCTTATTTCTATATGAGAAATCAGGCGCAAGAGAGAGAGAGAGAGAGAGAG 5580  
QY 181 CTTTGTACGCGCTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGCGACC 240

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Db 5581 CTTTGTCAAGCCCTAATGAAACCAAACTTCTTTGGAAAGTGCAACATCATATGCGACC 5640
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Qy 241 CACTAAGATGATGTTGATGCGAAAGCCCTGGCTTATTTCTGTGATGTTGACCTGGAAA 300
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Db 5641 CACTAAGATGATGTTGATGCGAAAGCCCTGGCTTATTTCTGTGATGTTGACCTGGAAA 5700
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Qy 301 AGATGTGCACTCAGGCTGATTTGAGACCCCTTGTGCTGCCACACTAACACTGACCC 360
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Db 5701 AGATGTGCACTCAGGCTGATTTGAGACCCCTTGTGCTGCCACACTAACACTGACCC 5760
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Qy 361 TGGTCATGGAGAGAGTACAGTACAGGATTTGCTGCTTTTCCACATTTTGGANGA 420
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Db 5761 TGGTCATGGAGAGAGTACAGTACAGGATTTGCTGCTTTTCCACATTTTGGANGA 5820
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Qy 421 GACCAAAAGCTGTACTTACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 480
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Db 5821 GACCAAAAGCTGTACTTACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 5880
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Qy 481 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCCATGCAATCATAGGCTACAT 540
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Db 5881 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCCATGCAATCATAGGCTACAT 5940
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Qy 541 AATGATATACATACCTGGCTTGTATGCTGCTGATCAAGATTCATGATGCTGCT 600
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Db 5941 AATGATATACATACCTGGCTTGTATGCTGCTGATCAAGATTCATGATGCTGCT 6000
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Qy 601 CACGATGGGAGCAATGAAACATCCATTTCTATTTTCACTGATGATGCTGCT 660
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Db 6001 CACGATGGGAGCAATGAAACATCCATTTCTATTTTCACTGATGATGCTGCT 6060
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Qy 661 ACCAAAAAGAGAGATATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
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Db 6061 ACCAAAAAGAGAGATATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 6120
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Qy 721 AGTGAATGTTACATCCCAAGCTGGAATTTGGCGGAGATGCTTATTTGGCGAGCA 780
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Db 6121 AGTGAATGTTACATCCCAAGCTGGAATTTGGCGGAGATGCTTATTTGGCGAGCA 6180
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Qy 781 TCTACATGCTGGAGATGAGCACTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
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Db 6181 TCTACATGCTGGAGATGAGCACTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 6240
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Qy 841 GGAAGAGCTTGTGAGCACTTTGAGATTTTGAATTTTGAAGCTTGAAGCAATATGAGCA 900
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Db 6241 GGAAGAGCTTGTGAGCACTTTGAGATTTTGAATTTTGAAGCTTGAAGCAATATGAGCA 6300
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Qy 901 GTGGGCCCCAAAGCTGGCGAGCTTATTTCCGATCAATCAATGCTTGGAGCACCA 960
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Db 6301 GTGGGCCCCAAAGCTGGCGAGCTTATTTCCGATCAATCAATGCTTGGAGCACCA 6360
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Qy 961 GGAAGCTTGTGAGCACTTTGAGATTTTGAATTTTGAAGCTTGAAGCAATATGAGCA 1001
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Db 6361 GGAAGCTTGTGAGCACTTTGAGATTTTGAATTTTGAAGCTTGAAGCAATATGAGCA 6401

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RESULT 11
; Sequence 3, Application US/07864004B
; Patent No. 5364771
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; APPLICANT: Runge, Marshall S.
; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kilpatrick & Cody
; STREET: 1100 Peachtree Street
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: US
; ZIP: 30309
; COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/864,004B
FILING DATE: 07 APRIL 1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Padst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: EMU106
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-815-6508
TELEFAX: 404-815-6555
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 9009 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapien
TISSUE TYPE: Liver
FEATURE:
NAME/KEY: misc_feature (Domain Structure)
LOCATION: 5001..7053
OTHER INFORMATION: /note="Equivalent to the A3-C1-C2"
OTHER INFORMATION: domain"
FEATURE:
NAME/KEY: misc_feature (Domain Structure)
LOCATION: 1..2277
OTHER INFORMATION: /note="Equivalent to the A1-A2"
OTHER INFORMATION: domain"
US-07-864-004B-3

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Query Match 100.0% Score 1001: DB 1: Length 9009:
Best Local Similarity 100.0% Pred. No. 8e-310:
Matches 1001: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
Qy 1 GCCCTTATACGCTGAGAGCACTAATGAACTTTGGAGCTCCCTGGGCGCATATTAAGAGC 60
Db 5442 GCCCTTATACGCTGAGAGCACTAATGAACTTTGGAGCTCCCTGGGCGCATATTAAGAGC 5501
Qy 61 AGAAGTTGAAGTAAATATCATGTAAGTGAATGGAATGAGGCTGCTGCTTATTCCTT 120
Db 5502 AGAAGTTGAAGTAAATATCATGTAAGTGAATGGAATGAGGCTGCTGCTTATTCCTT 5561
Qy 121 CATTCTAGCCTTATTTCTTATGAGAGATCAGAGGCAAGAGAGCAAGCAAGCAAGCA 180
Db 5562 CATTCTAGCCTTATTTCTTATGAGAGATCAGAGGCAAGAGAGCAAGCAAGCAAGCA 5621
Qy 181 CTTTGTCAAGCCTAATGAAACCAAACTTACTTTTGAAGTGAACATCATATGCGACC 240
Db 5622 CTTTGTCAAGCCTAATGAAACCAAACTTACTTTTGAAGTGAACATCATATGCGACC 5681
Qy 241 CACTAAGATGATGTTGATGCGAAAGCCCTGGCTTATTTCTGTGATGTTGACCTGGAAA 300
Db 5682 CACTAAGATGATGTTGATGCGAAAGCCCTGGCTTATTTCTGTGATGTTGACCTGGAAA 5741
Qy 301 AGATGTGCACTCAGGCTGATTTGAGACCCCTTGTGCTGCCACACTAACACTGACCC 360
Db 5742 AGATGTGCACTCAGGCTGATTTGAGACCCCTTGTGCTGCCACACTAACACTGACCC 5801
Qy 361 TGGTCATGGAGAGAGTACAGTACAGGATTTGCTGCTTTTCCACATTTTGGANGA 420
Db 5802 TGGTCATGGAGAGAGTACAGTACAGGATTTGCTGCTTTTCCACATTTTGGANGA 5861
Qy 421 GACCAAAAGCTGTACTTACTGAAATATGGAAGAAAGCTGAGGCTCCCTGCAATAT 480

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Db 5862 GACCAAAAGCTGCTACTGTAATAATGGAAGAAAGCTGAGGCTCCCTGCAATAT 5921  
OY 481 CCAGATGGAAGATCCCACTTTTAAGAGAAATATACGCTTCATCCATCAATCAATGCTATCAT 540  
Db 5922 CCAGATGGAAGATCCCACTTTTAAGAGAAATATACGCTTCATCCATCAATCAATGCTATCAT 5981  
OY 541 AATGATACACTACCTGCTTGAATAGGCTCAGAGATCAAGATTCAGATGATCTGCT 600  
Db 5982 AATGATACACTACCTGCTTGAATAGGCTCAGAGATCAAGATTCAGATGATCTGCT 6041  
OY 601 CAGATGAGGACGCAATGAAATCATCTTATTCATTCATTCAGTACATGCTGCT 660  
Db 6042 CAGATGAGGACGCAATGAAATCATCTTATTCATTCATTCAGTACATGCTGCT 6101  
OY 661 ACGAAAAAGAGAGATATAAATGACATGCTACATCTCATCCAGCTGCTTTTACAGAC 720  
Db 6102 ACGAAAAAGAGAGATATAAATGACATGCTACATCTCATCCAGCTGCTTTTACAGAC 6161  
OY 721 AGTGAATATGTTACATCAAAAGCTGGAATTTGGCGGTGGAATGCTTATTTGGCAGCA 780  
Db 6162 AGTGAATATGTTACATCAAAAGCTGGAATTTGGCGGTGGAATGCTTATTTGGCAGCA 6221  
OY 781 TCTACATGCTGGATGAGCAACACTTTTCTGCTGCTACAGCAATPAAGTGTGACATCCCT 840  
Db 6222 TCTACATGCTGGATGAGCAACACTTTTCTGCTGCTACAGCAATPAAGTGTGACATCCCT 6281  
OY 841 GGAATGCTTCTGACACATTAAGATTTTCAATTTACAGCTTCCTGAGCAATATGAGCA 900  
Db 6282 GGAATGCTTCTGACACATTAAGATTTTCAATTTACAGCTTCCTGAGCAATATGAGCA 6341  
OY 901 GTGGGCCCCCAAGCTGCGCAGACTTATTTATTCGGATCAATCAATGCTGAGCACCAC 960  
Db 6342 GTGGGCCCCCAAGCTGCGCAGACTTATTTATTCGGATCAATCAATGCTGAGCACCAC 6401  
OY 961 GGAGCCCTTTTCTGATCAAGGTGATCTGTTGGCACCAC 1001  
Db 6402 GGAGCCCTTTTCTGATCAAGGTGATCTGTTGGCACCAC 6442

RESULT 12  
US-08-251-937A-3  
; Sequence 3, Application US/08251937A  
; Patent No. 5583209  
; GENERAL INFORMATION:  
; APPLICANT: Lollar, John S.  
; APPLICANT: Runge, Marshall S.  
; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kilpatrick & Cody  
; STREET: 1100 Peachtree Street  
; CITY: Atlanta  
; STATE: Georgia  
; COUNTRY: US  
; ZIP: 30309  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/251,937A  
; FILING DATE: 31-MAY-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/864,004  
; FILING DATE: 07-APR-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Pratt, John S.  
; REGISTRATION NUMBER: 29,476  
; REFERENCE/DOCKET NUMBER: EMU106DIV  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-815-6367  
TELEFAX: 404-815-6555  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9009 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHEICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE: N-terminal  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapien  
; TISSUE TYPE: Liver  
; FEATURE:  
; NAME/KEY: misc\_feature (Domain Structure)  
; LOCATION: 5001..7053  
; OTHER INFORMATION: /note="Equivalent to the A3-C1-C2  
; OTHER INFORMATION: domain"  
; NAME/KEY: misc\_feature (Domain Structure)  
; LOCATION: 1..2277  
; OTHER INFORMATION: /note="Equivalent to the A1-A2  
; OTHER INFORMATION: domain"  
US-08-251-937A-3

Query Match 100.0%; Score 1001; DB 1; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCTTATACCTGAGAGAACTTAATGAACATTTGGACCTCCGGGGCCATATATAAGC 60  
Db 5442 GCCCTTATACCTGAGAGAACTTAATGAACATTTGGACCTCCGGGGCCATATATAAGC 5501  
OY 61 AGAAGTTGAAGATTAATCATATGATGTTACATTTGAGAAATCAGGCTCTGCTTCTTCTT 120  
Db 5502 AGAAGTTGAAGATTAATCATATGATGTTACATTTGAGAAATCAGGCTCTGCTTCTTCTT 5561  
OY 121 CTATCTAGCCCTTATTTCTATGAGAGATCAAGGACCAAGACCAAGCAACCTATAAAAA 180  
Db 5562 CTATCTAGCCCTTATTTCTATGAGAGATCAAGGACCAAGACCAAGCAACCTATAAAAA 5621  
OY 181 CTTTGTCAAGCTTATGAAACCAAACTTACTTTTGAAGATGCAACATCATATGCGACC 240  
Db 5622 CTTTGTCAAGCTTATGAAACCAAACTTACTTTTGAAGATGCAACATCATATGCGACC 5681  
OY 241 CACTTAAAGATGATTTGACTGCACAAAGCCTGCGCTTATTTCTGATGTTGACCTGAAAA 300  
Db 5682 CACTTAAAGATGATTTGACTGCACAAAGCCTGCGCTTATTTCTGATGTTGACCTGAAAA 5741  
OY 301 AGATGTGACATCAGGCTGATGTTGACCCCTCTGCTGCTGCACACTAACACATGAAACC 360  
Db 5742 AGATGTGACATCAGGCTGATGTTGACCCCTCTGCTGCTGCACACTAACACATGAAACC 5801  
OY 361 TGCATATGAGAGACAGTACAGTACAGGAATTTGCTGTTTTCACACTCTTTGATGA 420  
Db 5802 TGCATATGAGAGACAGTACAGTACAGGAATTTGCTGTTTTCACACTCTTTGATGA 5861  
OY 421 GACCAAAAGCTGTTACTTCACTGAAATATGAGAAAGAACTGACGAGCTCCCTGCAATAT 480  
Db 5862 GACCAAAAGCTGTTACTTCACTGAAATATGAGAAAGAACTGACGAGCTCCCTGCAATAT 5921  
OY 481 CCAGATGGAAGATCCCACTTTTAAGAGAAATATACGCTTCATCCATCAATCAATGCTATCAT 540  
Db 5922 CCAGATGGAAGATCCCACTTTTAAGAGAAATATACGCTTCATCCATCAATCAATGCTATCAT 5981  
OY 541 AATGATACACTACCTGCTTGAATAGGCTCAGAGATCAAGATTCAGATGATCTGCT 600  
Db 5982 AATGATACACTACCTGCTTGAATAGGCTCAGAGATCAAGATTCAGATGATCTGCT 6041  
OY 601 CAGATGAGGACGCAATGAAATCATCTTATTCATTCATTCAGTACATGCTGCT 660

Db 6042 CAGCATGGGAGGAGCAATGAAACATCCATCTATTCATTCAGTGGACATGTGTCACCTGT 6101  
QY 661 ACCAAAAAGAGAGATATTAATGCGACTGTACATCTCTATCCAGGTGTTTGGAGAC 720  
Db 6102 ACCAAAAAGAGAGATATTAATGCGACTGTACATCTCTATCCAGGTGTTTGGAGAC 6161  
QY 721 AGTGAATGTTTCCATCCAAACCTGGAAATTTGGCGGGTGAATGGCTTATTTGGCAGCA 780  
Db 6162 AGTGAATGTTTCCATCCAAACCTGGAAATTTGGCGGGTGAATGGCTTATTTGGCAGCA 6221  
QY 781 TCTACATGCTGGAGTACAGACACTTTTCTGTGTACAGCAATTAAGTGTACAGCTCCCT 840  
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QY 841 GGAATGGCTTCTGGACATTTAGATTTTTCAGATTACAGCTTCAAGCAATATGAGCA 900  
Db 6282 GGAATGGCTTCTGGACATTTAGATTTTTCAGATTACAGCTTCAAGCAATATGAGCA 6341  
QY 901 GTGGGCCCCAAAGCTGGCCAGACTTATTTCCGGATCCGATCAATCAATGCTGGAGCAGCA 960  
Db 6342 GTGGGCCCCAAAGCTGGCCAGACTTATTTCCGGATCCGATCAATCAATGCTGGAGCAGCA 6401  
QY 961 GGAGCCCTTTTCTGGATCAAGGTGATCTGTTGGCAGCA 1001  
Db 6402 GGAGCCCTTTTCTGGATCAAGGTGATCTGTTGGCAGCA 6442

## RESULT 13

US-08-212-133A-1

Sequence 1, Application US/08212133A

Patent No. 5663060

GENERAL INFORMATION:

APPLICANT: Lollar, John S.

TITLE OF INVENTION: Hybrid Human/Animal Factor VIII

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kilpatrick &amp; Cody

STREET: 100 Peachtree Street

CITY: Atlanta

STATE: Georgia

COUNTRY: US

ZIP: 30303

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/212,133A

FILING DATE: March 11, 1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/864,004

FILING DATE: 07-Apr-1992

ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea L.

REGISTRATION NUMBER: 31,284

REFERENCE/DOCKET NUMBER: EMU/76677

TELEPHONE: 404-572-6508

TELEFAX: 404-572-6555

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 9009 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Homo sapien

TISSUE TYPE: Liver  
FEATURE:  
NAME/KEY: misc-feature (Domain Structure)  
LOCATION: 5125...7053  
OTHER INFORMATION: /note= "Equivalent to the A3-C1-C2  
OTHER INFORMATION: domain"  
FEATURE:  
NAME/KEY: misc-feature (Domain Structure)  
LOCATION: 1...2277  
OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain."  
OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain."  
US-08-212-133A-1  
Query Match 100.0%; Score 1001; DB 1; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGACATAATGACATTTGGAGCTCCTGGGGCCATATTAAGAGC 60  
Db 5442 GCCCTTATACCGTGGAGACATAATGACATTTGGAGCTCCTGGGGCCATATTAAGAGC 5501  
QY 61 AGAAGTTGAAGATATATCATGATGTAATCTTCAAGAAATGAGGCTCTGCTCTATTCCTT 120  
Db 5502 AGAAGTTGAAGATATATCATGATGTAATCTTCAAGAAATGAGGCTCTGCTCTATTCCTT 5561  
QY 121 CTATTCAGCTTATTTCTTATAGAGATACAGAGCCAGAGACACTAGAAAAA 180  
Db 5562 CTATTCAGCTTATTTCTTATAGAGATACAGAGCCAGAGACACTAGAAAAA 5621  
QY 181 CTTTGCAAGCCTATATGAACCAAACTTACTTTTGAAGTGAACATCATATGAGCACC 240  
Db 5622 CTTTGCAAGCCTATATGAACCAAACTTACTTTTGAAGTGAACATCATATGAGCACC 5681  
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RESULT 14
US-08-474-503-1
: Sequence 1, Application US/08474503
: Patent No. 574446
: GENERAL INFORMATION:
: APPLICANT: Emory University
: TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kilpatrick & Cody
: STREET: 1100 Peachtree Street, Suite 2800
: CITY: Atlanta
: STATE: Georgia
: COUNTRY: US
: ZIP: 30309
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/474, 503
: FILING DATE: 07-JUN-1995
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Priett, John S.
: REGISTRATION NUMBER: 29,476
: REFERENCE/DOCKET NUMBER: EMU106CIP(3)
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 404-815-6500
: TELEFAX: 404-815-6555
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 9009 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Homo sapien
: TISSUE TYPE: Liver
: FEATURE:
: NAME/KEY: misc_feature (Domain Structure)
: LOCATION: 5125 . . . 7053
: OTHER INFORMATION: /note= "Equivalent to the A3-C1-C2
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: LOCATION: 1..2277
: OTHER INFORMATION: /note= "cDNA encoding human factor

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: OTHER INFORMATION: VIII."
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Best Local Similarity 100.0%; Pred. No. 8e-310;
Matches 1001; Conservative 0; Mismatch 0; Indels 0; Gaps 0;

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Qy 901 GTGGCCCCCAAGCTGGCAGACTTCATTATTCGGATCATCAATGCTGGACACCAA 960
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Thu Jan 9 10:11:47 2003

us-09-740-211-13\_copy\_3000\_4000.rni

Page 14

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GenCore version 5.1.3  
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Searched: 381593 seqs, 216252194 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

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## SUMMARIES

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3	1001	100.0	4999	10	US-09-740-211-14
4	1001	100.0	7944	12	US-10-095-718-1
5	1001	100.0	9009	9	US-09-957-641-1
6	1001	100.0	11933	9	US-10-007-968-13
7	1001	100.0	11933	10	US-09-740-211-13
8	857	85.6	7914	12	US-10-095-718-3
9	147.6	14.7	6909	10	US-09-880-107-2275
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11	135	13.5	3321	10	US-09-825-294-175
12	135	13.5	3321	10	US-09-880-107-2253
13	106	10.6	3700	10	US-09-917-800A-1539
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15	64.8	6.5	389	10	US-09-960-352-12959
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17	60.6	6.1	429	9	US-10-046-935-349
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19	48.4	4.8	241	10	US-09-604-287A-354

C 20	48.4	4.8	241	12	US-10-007-805-354	Sequence 354, App
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C 22	44.6	4.5	404	10	US-09-910-668-132	Sequence 132, App
C 23	44.6	4.5	404	12	US-10-010-742-132	Sequence 132, App
C 24	43.4	4.3	234	10	US-09-960-352-2767	Sequence 2767, App
C 25	41.2	4.1	236	10	US-09-960-352-5174	Sequence 5174, App
C 26	40.8	4.1	596	10	US-09-864-864-114	Sequence 114, App
C 27	40	4.0	597	10	US-09-764-864-114	Sequence 125, App
C 28	37.6	3.8	519	9	US-09-736-457-1255	Sequence 1255, App
C 29	37.6	3.8	519	9	US-09-902-941-1255	Sequence 1255, App
C 30	37.6	3.8	519	9	US-09-902-941-1255	Sequence 1255, App
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C 32	37.6	3.8	519	9	US-09-849-626-1295	Sequence 1295, App
C 33	37.6	3.8	519	9	US-09-849-626-1295	Sequence 1295, App
C 34	36.6	3.7	8907	9	US-09-738-626-934	Sequence 934, App
C 35	35.8	3.6	497	10	US-09-783-559-5767	Sequence 5767, App
C 36	34.8	3.5	359	9	US-09-954-531-1028	Sequence 1028, App
C 37	34.6	3.5	405	10	US-09-960-352-12433	Sequence 12433, App
C 38	34.2	3.4	778	10	US-09-910-943-554	Sequence 554, App
C 39	34	3.4	197997	10	US-09-822-246-3	Sequence 3, App11
C 40	33.8	3.4	3381	10	US-09-815-242-4318	Sequence 4318, App
C 41	33.8	3.4	3477	10	US-09-815-242-8424	Sequence 8424, App
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## ALIGNMENTS

RESULT 1  
US-09-150-811-7  
GENERAL INFORMATION:  
APPLICANT: Connelly, Sheila  
Smith, Theodore  
TITLE OF INVENTION: Adenoviral Vectors for  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan,  
City: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/150, 811  
FILING DATE: 10-Sep-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/484, 891  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: 08/218, 335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074, 920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24, 025  
REFERENCE/DOCKET NUMBER: 271010-440  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
US-09-150-811-7  
Query Match 100.0%; Score 1001; DB 10; Length 4629;

Best Local Similarity 100.0%; Pred. No. 2,5e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2

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US-10-007-968-14
; Sequence 14, Application US/10007968
; Patent No. US2002015977A1
; GENERAL INFORMATION:
; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: Avigen-04082
; CURRENT FILING DATE: US/10/007, 968
; PRIOR FILING DATE: 2001-12-13
; PRIOR FILING DATE: 09/740, 211
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 60/125, 974
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/104, 994
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 14
; LENGTH: 4999
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-007-968-14

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Query Match Best Local Similarity 100.0%; Score 1001; DB 9; Length 4999;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 CTATCTACGCTTATTTCTTATATAGAGATGCAAGGCAAGAGCAAGCAATAGAAAAA 180
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Db 3565 AATGATACACTACCTGCTTATATAGCTCAGATCAAGAGATTCGATGATCTGCT 3624
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RESULT 3  
 US-09-740-211-14  
 ; Sequence 14, Application US/09740211  
 ; Patent No. US20010010815A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Couto, Linda B.  
 ; APPLICANT: Colosi, Peter C.  
 ; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
 ; FILE REFERENCE: Avigen-04082  
 ; CURRENT APPLICATION NUMBER: US/09/740,211  
 ; PRIOR FILING DATE: 2000-12-18  
 ; PRIOR APPLICATION NUMBER: 09/470,618  
 ; PRIOR FILING DATE: 1999-12-22  
 ; PRIOR APPLICATION NUMBER: 60/125,974  
 ; PRIOR FILING DATE: 1999-03-24  
 ; PRIOR APPLICATION NUMBER: 60/104,994  
 ; PRIOR FILING DATE: 1998-10-20  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: Patent Ver. 2.0  
 ; SEQ ID NO 14  
 ; LENGTH: 4999  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 US-09-740-211-14

Query Match 100.0%; Score 1001; DB 10; Length 4999;  
 Best Local Similarity 100.0%; Pred. No. 2,6e-299;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 GCCCTTAACCGTGAAGAACTAATGACATTTGGGACTCTGGGGCCATATATAAGC 60  
 Db 3025 GCCCTTAACCGTGAAGAACTAATGACATTTGGGACTCTGGGGCCATATATAAGC 3084  
 QY 61 AGAAGTTGAAGATATATATGATGTTTCAAGAAATCAGGCTCTGCTCCATTTCCCT 120  
 Db 3085 AGAAGTTGAAGATATATATGATGTTTCAAGAAATCAGGCTCTGCTCCATTTCCCT 3144  
 QY 121 CTATTTAGCTTATTTCTTATGAGAGATCAGAGCAAGGAGCAAGAACTAGAAAAA 180  
 Db 3145 CTATTTAGCTTATTTCTTATGAGAGATCAGAGCAAGGAGCAAGAACTAGAAAAA 3204  
 QY 181 CTTTTCACGCTTAATGAACCAAACTTACTTTTGGAAAGTGAACATCATATGCGACC 240

Db 3205 CTTTTCACGCTTAATGAACCAAACTTACTTTTGGAAAGTGAACATCATATGCGACC 3264  
 QY 241 CACTAAAGATGAGTTTACATGCAAAAGCTGGGCTTATTTCTGATGTTTACCTGGAAA 300  
 Db 3265 CACTAAAGATGAGTTTACATGCAAAAGCTGGGCTTATTTCTGATGTTTACCTGGAAA 3324  
 QY 301 AGATGTGACACTCAGGCTGATTTGAGACCCCTTCTGCTGTCACACTCACTGAACCC 360  
 Db 3325 AGATGTGACACTCAGGCTGATTTGAGACCCCTTCTGCTGTCACACTCACTGAACCC 3384  
 QY 361 TGCTCATGGAGACAAAGTACAGAGATTTGCTCTGTTTTCACATCTTTGATGA 420  
 Db 3385 TGCTCATGGAGACAAAGTACAGAGATTTGCTCTGTTTTCACATCTTTGATGA 3444  
 QY 421 GACCAAAAGCTGATCTTACCTGAAATATGGAAGAAGAACTGCAAGGCTCCCTGCATAT 480  
 Db 3445 GACCAAAAGCTGATCTTACCTGAAATATGGAAGAAGAACTGCAAGGCTCCCTGCATAT 3504  
 QY 481 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCCATGCAATCAATGCTACAT 540  
 Db 3505 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCCATGCAATCAATGCTACAT 3564  
 QY 541 AATGATACACTACCTGCTTATGATGCTCAGAGATCAAGAGATTCAGATATCTGCT 600  
 Db 3565 AATGATACACTACCTGCTTATGATGCTCAGAGATCAAGAGATTCAGATATCTGCT 3624  
 QY 601 CAGATGGGCGACGATGAAACATCCATTCATCATTTACATGAGATGTTCACTGT 660  
 Db 3625 CAGATGGGCGACGATGAAACATCCATTCATTCATTTACATGAGATGTTCACTGT 3684  
 QY 661 ACGAAAAAAGAGAGATTAATAATGGCACTGATCAATCTATCCAGTGTGTTTGAAC 720  
 Db 3685 ACGAAAAAAGAGAGATTAATAATGGCACTGATCAATCTATCCAGTGTGTTTGAAC 3744  
 QY 721 AGTGAATGTTTACATCCAAAGCTGGAATTTGGGGGGTGAATGCTTATTTGGGAGCA 780  
 Db 3745 AGTGAATGTTTACATCCAAAGCTGGAATTTGGGGGGTGAATGCTTATTTGGGAGCA 3804  
 QY 781 TCTACATGCTGGAGTACGACACTTTTCTGGTGTACAGCAATAAGTTCAGACTCCCT 840  
 Db 3805 TCTACATGCTGGAGTACGACACTTTTCTGGTGTACAGCAATAAGTTCAGACTCCCT 3864  
 QY 841 GGAATGCTTGTGACACATTAGAGATTTTACATTACAGCTTACAGCAATATGACCA 900  
 Db 3865 GGAATGCTTGTGACACATTAGAGATTTTACATTACAGCTTACAGCAATATGACCA 3924  
 QY 901 GTGGGGCCCCAAGCTGGCCAGACTTCATATTCGGGATCAATCAATGCTGGAGCACC 960  
 Db 3925 GTGGGGCCCCAAGCTGGCCAGACTTCATATTCGGGATCAATCAATGCTGGAGCACC 3984  
 QY 961 GGAGCCCTTTTCTTGATCAAGTGGATCTGTTGGCACC 1001  
 Db 3985 GGAGCCCTTTTCTTGATCAAGTGGATCTGTTGGCACC 4025

RESULT 4  
 US-10-095-718-1  
 ; Sequence 1, Application US/10095718  
 ; Patent No. US20020131956A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walsh, Christopher  
 ; APPLICANT: Chao, Hengjun  
 ; APPLICANT: Burstein, Haim  
 ; APPLICANT: Lynch, Carmel  
 ; APPLICANT: Stepan, Tony  
 ; APPLICANT: Munson, Keith  
 ; TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and  
 ; FILE REFERENCE: 35052/204375  
 ; CURRENT APPLICATION NUMBER: US/10/095,718  
 ; PRIOR FILING DATE: 2002-03-12  
 ; PRIOR APPLICATION NUMBER: 09/689,430  
 ; PRIOR FILING DATE: 2001-08-22



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:
: PRIOR APPLICATION NUMBER: 60/158,760
: PRIOR FILING DATE: 1999-10-12
: NUMBER OF SEQ ID NOS: 5
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
:
: LENGTH: 7944
:
: TYPE: DNA
:
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Plasmid pDL26 encoding Homo sapiens BDNF
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (420)...(4835)
:
: OS=10-095-718-1

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Query Match	100.0%	Score 1001:	DB 12:	Length 7944:
Best Local Similarity	100.0%	Pred. No. 3.4e-29:		
Matches 1001:	Conservative 0:	Mismatches 0:	Indels 0:	Gaps 0

OY	1	GCCTTATACCGTGGAGAACCTAAATGAACTTTGGGACCTCGGGCCCTATATTAAGAC	60
Db	3071	GCCCTTATACCGTGGAGAACTAAATGAACTTTGGGACCTCGGGCCCTATATTAAGAC	3130
OY	61	AGAAAGTGAAGATATATTCATGTGAACTTTGAGAAATCAAGGCGCTCGCTCATTCCTT	120
Db	3131	AGAAAGTGAAGATATATTCATGTGAACTTTGAGAAATCAAGGCGCTCGCTCATTCCTT	3190
OY	121	CTATTTTAGCCTTATTTCTTATGAGGAAGATCAGAGGCAAGGACGAACTTAGAAAAA	180
Db	3191	CTATTTTAGCCTTATTTCTTATGAGGAAGATCAGAGGCAAGGACGAACTTAGAAAAA	3250
OY	181	CTTTGTCAAGCCTAATGAAACCAAACTTACTTTTGGAAAGTGCACATCATATGCGAC	240
Db	3251	CTTTGTCAAGCCTAATGAAACCAAACTTACTTTTGGAAAGTGCACATCATATGCGAC	3310
OY	241	CACATAAGATGATGTTTACTGCAAAAGCGTGCTTATTTCTGATGTGACCTGGAAA	300
Db	3311	CACATAAGATGATGTTTACTGCAAAAGCGTGCTTATTTCTGATGTGACCTGGAAA	3370
OY	301	AGATGTGCACCTCAGGCGCTGATGGAGCCCTTGTGCTGCCACACTAACACACTGAACC	360
Db	3371	AGATGTGCACCTCAGGCGCTGATGGAGCCCTTGTGCTGCCACACTAACACACTGAACC	3430
OY	361	TGCTCATAGGAGACAACTGACAGTACAGGAATTTGCTCTGTTTTTACCACATCTTGGATGA	420
Db	3431	TGCTCATAGGAGAGAACAACTGACAGTACAGGAATTTGCTCTGTTTTTACCACATCTTGGATGA	3490
OY	421	GACCAAAAGCTGGATCTCACTGAAATATGGAAGAACTCAGAGGCGCCCTGCAATAT	480
Db	3491	GACCAAAAGCTGGATCTCACTGAAATATGGAAGAACTCAGAGGCGCCCTGCAATAT	3550
OY	481	CCAGATGGAAGATCCCACTTTTAAAGAGAAATATCGCTTCGATGCAATCAATGCGTACAT	540
Db	3551	CCAGATGGAAGATCCCACTTTTAAAGAGAAATATCGCTTCGATGCAATCAATGCGTACAT	3610
OY	541	AATGGAATACACTACCTGGCTTAAATGCGCTCAGATCAAGAGATCGAATGGTATCTGCT	600
Db	3611	AATGGAATACACTACCTGGCTTAAATGCGCTCAGATCAAGAGATCGAATGGTATCTGCT	3670
OY	601	CAGATGGGAGCAATGAAACATCATTCATCTTCACTTCACTGGACATGTGTTCACGT	660
Db	3671	CAGATGGGAGCAATGAAACATCATTCATCTTCACTTCACTGGACATGTGTTCACGT	3730
OY	661	ACGAAAAAAGAGAGAGATATAATGCGACATGACAAATCTCTATCCAGGCTTTTGGAGAC	720
Db	3731	ACGAAAAAAGAGAGAGATATAATGCGACATGACAAATCTCTATCCAGGCTTTTGGAGAC	3790
OY	721	AGTGAAGATGTATCCATCCAAAGCTGGAATTTGGCGGATGGAATGCTTATTTGGGAGACA	780
Db	3791	AGTGAAGATGTATCCATCCAAAGCTGGAATTTGGCGGATGGAATGCTTATTTGGGAGACA	3850
OY	781	TCTACATGCTGGGATAGCACACTTTTCTGGGTGACAGCAATTAAGTGCAGACTCCCT	840

[illegible]

RESULT 5  
US-09-957-641-1  
; Sequence 1, Application US/099576411

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: GENERAL INFORMATION:
: TITLE OF INVENTION: Emory University
: FILE REFERENCE: 75-00
: CURRENT APPLICATION NUMBER: US/09/957,641
: CURRENT FILING DATE: 2001-09-16
: PRIOR APPLICATION NUMBER: US 60/234047
: PRIOR FILING DATE: 2000-09-19
: PRIOR APPLICATION NUMBER: US 60/236460
: PRIOR FILING DATE: 2000-09-29
: NUMBER OF SEQ. ID NOS: 18
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 1
: LENGTH: 9009
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (208)..(7203)
: US-09-957-641-1

Query Match          100.0%; Score 1001; DB 9; Length 9009;
Best Local Similarity 100.0%; Pred. No. 3,7e+299;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACTCCCTGGGCGCATATATTAAGAGC 60
DB 5442 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACTCCCTGGGCGCATATATTAAGAGC 5501

QY 61 AGAAGTTGAAGATTAATATCATGTGTACTTTTCAGAAATCAGGCGCTGTGCTCCATTTCTTT 120
DB 5502 AGAAGTTGAAGATTAATATCATGTGTACTTTTCAGAAATCAGGCGCTGTGCTCCATTTCTTT 5561

QY 121 CTATTCAGGCTTATTTCTTATGAGGAAGATCAGAGCGCAAGGACCAACCTTGAAAAA 180
DB 5562 CTATTCAGGCTTATTTCTTATGAGGAAGATCAGAGCGCAAGGACCAACCTTGAAAAA 5621

QY 181 CTTTGTCAAGCCTAATGAACAACCAACTTACTTTTGGAAAGTGCACATCATATATGACACC 240
DB 5622 CTTTGTCAAGCCTAATGAACAACCAACTTACTTTTGGAAAGTGCACATCATATATGACACC 5681

QY 241 CACTAAGAATGATGTTGACTGCAAAAGCTGGGCTTATTTCTGTAGTCTTGACCTGGAAAA 300
DB 5682 CACTAAGAATGATGTTGACTGCAAAAGCTGGGCTTATTTCTGTAGTCTTGACCTGGAAAA 5741

QY 301 AGATGTGCACTAGGCGTGTATTTGGACCCCTTCTGTGCTGCGCACACATACACACTGAACC 360
DB 5742 AGATGTGCACTAGGCGTGTATTTGGACCCCTTCTGTGCTGCGCACACATACACACTGAACC 5801

QY 361 TGTGTCATGGGAGACAAGTACAGTACAGGATTTGCTGCTGTTTTCACATCTTTGATGA 420
DB 5802 TGTGTCATGGGAGACAAGTACAGTACAGGATTTGCTGCTGTTTTCACATCTTTGATGA 5861

QY 421 GACCAAAACCTGCTACTTCTACTGAAAATATGGAAGAAACTGCAAGGCTCCCTGCATAT 480

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Db 5862 GACCAAAAGCTGCTTACCTGAAATGAGAAAGAAAGCTGAGGCTCCCTGCAATAT 5921  
OY 481 CCAGATGGAAGATCCACTTTTAAAGAGAAATTTGCTTCAATGCAATCAATGGCTACAT 540  
Db 5922 CCAGATGGAAGATCCACTTTTAAAGAGAAATTTGCTTCAATGCAATCAATGGCTACAT 5981  
OY 541 AATGATACACTACCTGGCTTATGATGCTGAGATCAAGAGATTTGATGCTGCT 600  
Db 5982 AATGATACACTACCTGGCTTATGATGCTGAGATCAAGAGATTTGATGCTGCT 6041  
OY 601 CAGCATGGGACAGCAATGAAACATCATCTATTCATTTGAGATGAGATGCTGCTGCT 660  
Db 6042 CAGCATGGGACAGCAATGAAACATCATCTATTCATTTGAGATGAGATGCTGCTGCT 6101  
OY 661 ACGAAAAAGAGAGATTAATAAATGGCACTGACATCTATTCAGGATGTTTGGAGAC 720  
Db 6102 ACGAAAAAGAGAGATTAATAAATGGCACTGACATCTATTCAGGATGTTTGGAGAC 6161  
OY 721 AGTGAATGTTACATCCCAAGCTGGAATTTGGGGGATGCAATGCTTATTTGGGAGCA 780  
Db 6162 AGTGAATGTTACATCCCAAGCTGGAATTTGGGGGATGCAATGCTTATTTGGGAGCA 6221  
OY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATTAAGTGCAGACTCCCT 840  
Db 6222 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATTAAGTGCAGACTCCCT 6281  
OY 841 GGGAAATGCTTCTGACACATTAGAGATTTGATGATGATGATGATGATGATGATGAT 900  
Db 6282 GGGAAATGCTTCTGACACATTAGAGATTTGATGATGATGATGATGATGATGATGAT 6341  
OY 901 GTGGGCCCCAAGGCTGCAAGCTTATTCGAGATCAATCAATGCTTGAAGACCA 960  
Db 6342 GTGGGCCCCAAGGCTGCAAGCTTATTCGAGATCAATCAATGCTTGAAGACCA 6401  
OY 961 GGAGCCCTTTCTTGGATCAAGGTGATGCTGTTGGACCA 1001  
Db 6402 GGAGCCCTTTCTTGGATCAAGGTGATGCTGTTGGACCA 6442

RESULT 6  
US-10-007-968-13  
; Sequence 13, Application US/10007968  
; Patent No. US20020159977A1  
; GENERAL INFORMATION:  
; APPLICANT: Coloto, Linda B.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; FILE REFERENCE: Avigen-04082  
; CURRENT APPLICATION NUMBER: US/10/007,968  
; CURRENT FILING DATE: 2001-12-13  
; PRIOR APPLICATION NUMBER: 09/740,211  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: 60/125,974  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104,994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 13  
; LENGTH: 11933  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-13

Query Match 100.0%; Score 1001; DB 9; Length 11933;  
Best Local Similarity 100.0%; Pred. No. 4.3e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCTTATACCTGAGAACTAATGAACTTTGGAGCTCTGCGGCATATATTAAGAGC 60

Db 3000 GCCCTTATACCTGAGAACTAATGAACTTTGGAGCTCTCTGCGGCATATATTAAGAGC 3059  
OY 61 AGAAGTTGAAGATATATATCATGTAATTTGAGAAATGAGGCTCTGCTTATTTCTT 120  
Db 3060 AGAAGTTGAAGATATATATCATGTAATTTGAGAAATGAGGCTCTGCTTATTTCTT 3119  
OY 121 CTATTTAGGCTTTTCTTATATGAGAAATGAGGCTGAGGCTGAGGCTGAGGCTGAGG 180  
Db 3120 CTATTTAGGCTTTTCTTATATGAGAAATGAGGCTGAGGCTGAGGCTGAGGCTGAGG 3179  
OY 181 CTTTGTAGGCTTTATGAAACCAAACTTATTTGAGAAATGAGGCTGAGGCTGAGGCTGAGG 240  
Db 3180 CTTTGTAGGCTTTATGAAACCAAACTTATTTGAGAAATGAGGCTGAGGCTGAGGCTGAGG 3239  
OY 241 CACTTAAGATGATTTGATGCTGCAAGGCTGAGGCTTATTTCTGATTTTACCTGAGAAA 300  
Db 3240 CACTTAAGATGATTTGATGCTGCAAGGCTGAGGCTTATTTCTGATTTTACCTGAGAAA 3299  
OY 301 AGATGTGACATCAGAGGCTGATTTGAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
Db 3300 AGATGTGACATCAGAGGCTGATTTGAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3359  
OY 361 TGTCTATGAGGAGACAGTACAGAGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420  
Db 3360 TGTCTATGAGGAGACAGTACAGAGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3419  
OY 421 GACCAAAAGCTGCTTACTGATGAAATATGAGAAAGAAAGCTGAGGCTCCCTGCAATAT 480  
Db 3420 GACCAAAAGCTGCTTACTGATGAAATATGAGAAAGAAAGCTGAGGCTCCCTGCAATAT 3479  
OY 481 CCAGATGGAAGATCCACTTTTAAAGAGAAATTTGCTTCAATCAATCAATGCTGCTACAT 540  
Db 3480 CCAGATGGAAGATCCACTTTTAAAGAGAAATTTGCTTCAATCAATCAATGCTGCTACAT 3539  
OY 541 AATGATACACTACCTGCTTATGATGCTGAGATCAAGGATTTGATGATGATGATGATGAT 600  
Db 3540 AATGATACACTACCTGCTTATGATGCTGAGATCAAGGATTTGATGATGATGATGATGAT 3599  
OY 601 CAGCATGGGACAGCAATGAAACATTCATTTGATGATGATGATGATGATGATGATGATGAT 660  
Db 3600 CAGCATGGGACAGCAATGAAACATTCATTTGATGATGATGATGATGATGATGATGATGAT 3659  
OY 661 ACGAAAAAGAGAGATTAATAAATGGCACTGACATCTATTCAGGATGTTTGGAGAC 720  
Db 3660 ACGAAAAAGAGAGATTAATAAATGGCACTGACATCTATTCAGGATGTTTGGAGAC 3719  
OY 721 AGTGAATGTTACATCCCAAGCTGGAATTTGGGGGATGCAATGCTTATTTGGGAGCA 780  
Db 3720 AGTGAATGTTACATCCCAAGCTGGAATTTGGGGGATGCAATGCTTATTTGGGAGCA 3779  
OY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATTAAGTGCAGACTCCCT 840  
Db 3780 TCTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATTAAGTGCAGACTCCCT 3839  
OY 841 GGGAAATGCTTCTGACACATTAGAGATTTGATGATGATGATGATGATGATGATGATGAT 900  
Db 3840 GGGAAATGCTTCTGACACATTAGAGATTTGATGATGATGATGATGATGATGATGATGAT 3899  
OY 901 GTGGGCCCCAAGGCTGCAAGCTTATTCGAGATCAATCAATGCTTGAAGACCA 960  
Db 3900 GTGGGCCCCAAGGCTGCAAGCTTATTCGAGATCAATCAATGCTTGAAGACCA 3959  
OY 961 GGAGCCCTTTCTTGGATCAAGGTGATGCTGTTGGACCA 1001  
Db 3960 GGAGCCCTTTCTTGGATCAAGGTGATGCTGTTGGACCA 4000

RESULT 7  
US-09-740-211-13  
; Sequence 13, Application US/09740211  
; Patent No. US20010010815A1  
; GENERAL INFORMATION:

APPLICANT: Couto, Linda B.  
APPLICANT: Colosi, Peter C.  
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
TITLE OF INVENTION: by Target Cells  
FILE REFERENCE: Avigen-04082  
CURRENT APPLICATION NUMBER: US/09/740,211  
CURRENT FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 09/470,618  
PRIOR FILING DATE: 1999-12-22  
PRIOR APPLICATION NUMBER: 60/125,974  
PRIOR FILING DATE: 1999-03-24  
PRIOR APPLICATION NUMBER: 60/104,994  
PRIOR FILING DATE: 1998-10-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 13  
LENGTH: 11933  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-740-211-13

Query Match 100.0%; Score 1001; DB 10; Length 11933;  
Best Local Similarity 100.0%; Pred. No. 4,3e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCTTATACCGTGGAGACATAATGAACATTTGGGACCTCGGGCCATATATAGAGC 60  
DB 3000 GCCCTTATACCGTGGAGACATAATGAACATTTGGGACCTCGGGCCATATATAGAGC 3059  
OY 61 AGAAGTTGAAGAT 120  
DB 3060 AGAAGTTGAAGAT 3119  
OY 121 CTATTCAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 180  
DB 3120 CTATTCAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 3179  
OY 181 CTTTGTCAAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 240  
DB 3180 CTTTGTCAAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 3239  
OY 241 CACTAAGATGAGTTGACTGCAAGAGCTGGCTTATTTCTGATGTTGACCTGGAAAA 300  
DB 3240 CACTAAGATGAGTTGACTGCAAGAGCTGGCTTATTTCTGATGTTGACCTGGAAAA 3299  
OY 301 AGATGTCACTCAAGCCTGATGAGCCCTTCTGATGCTGCAACATACATACATGAAACC 360  
DB 3300 AGATGTCACTCAAGCCTGATGAGCCCTTCTGATGCTGCAACATACATACATGAAACC 3359  
OY 361 TGTCTATGAGAGCAAGTGAAGTGAAGATTTGCTGTTTTCACCATCTTTTGAATGA 420  
DB 3360 TGTCTATGAGAGCAAGTGAAGTGAAGATTTGCTGTTTTCACCATCTTTTGAATGA 3419  
OY 421 GACCAAAAGTGTGACTTCACTATAAATATGAAAGAAATGCAAGGCTCCCTGCAATAT 480  
DB 3420 GACCAAAAGTGTGACTTCACTATAAATATGAAAGAAATGCAAGGCTCCCTGCAATAT 3479  
OY 481 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCATGCAATGAATGAGCAATAT 540  
DB 3480 CCAGATGGAAGATCCCACTTTTAAAGAAATATGCTTCATGCAATGAATGAGCAATAT 3539  
OY 541 AATGATATACACTTCTGCTTAAATGCTCAGATCAAGGATTCGATGATCTGCT 600  
DB 3540 AATGATATACACTTCTGCTTAAATGCTCAGATCAAGGATTCGATGATCTGCT 3599  
OY 601 CAGCATGGGAGCAATGAAACATCATTTCTATTCATTCAGTGAACATGCTTCACTGT 660  
DB 3600 CAGCATGGGAGCAATGAAACATCATTTCTATTCATTCAGTGAACATGCTTCACTGT 3659  
OY 661 ACGAAAAAAGAGAGTATATAATGACATCTCTATCCAGGCTTTTGAAGAC 720  
DB 661 ACGAAAAAAGAGAGTATATAATGACATCTCTATCCAGGCTTTTGAAGAC 720

DB 3660 ACGAAAAAAGAGAGTATATAATGACATCTCTATCCAGGCTTTTGAAGAC 3719  
OY 721 AGTGAATATGTTTACATCCCAAGAGCTGGAATTTGGGGGATGCTTATTTGGAGCA 780  
DB 3720 AGTGAATATGTTTACATCCCAAGAGCTGGAATTTGGGGGATGCTTATTTGGAGCA 3779  
OY 781 TCTACATGCTGGGATGAGCAACATTTTCTGCTGATGATCAAGCAATGATGATGCTCCCT 840  
DB 3780 TCTACATGCTGGGATGAGCAACATTTTCTGCTGATGATCAAGCAATGATGATGCTCCCT 3839  
OY 841 GGAATGCTGCTTGGACATATTAAGATTTTACATTAAGCTTCAAGCAATATGAGCA 900  
DB 3840 GGAATGCTGCTTGGACATATTAAGATTTTACATTAAGCTTCAAGCAATATGAGCA 3899  
OY 901 GTGGGCCCAAGCTGGGACATTCATATTCGGATCAATCAATGCTGGAGCACCAC 960  
DB 3900 GTGGGCCCAAGCTGGGACATTCATATTCGGATCAATCAATGCTGGAGCACCAC 3959  
OY 961 GGAGCCCTTTTCTTGGATCAAGGTGATCTGTCACACCA 1001  
DB 3960 GGAGCCCTTTTCTTGGATCAAGGTGATCTGTCACACCA 4000

RESULT 8  
US-10-095-718-3  
Sequence 3, Application US/10095718  
Patent No. US20020131956A1

GENERAL INFORMATION:  
APPLICANT: Walsh, Christopher  
APPLICANT: Chao, Hengjun  
APPLICANT: Burstein, Haim  
APPLICANT: Lynch, Carmel  
APPLICANT: Stepan, Tony  
APPLICANT: Munson, Keith  
TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and  
FILE OF INVENTION: Methods of Using the Same  
FILE REFERENCE: 35052/204375  
CURRENT APPLICATION NUMBER: US/10/095,718  
PRIOR FILING DATE: 2002-03-12  
PRIOR APPLICATION NUMBER: 09/689,430  
PRIOR FILING DATE: 2001-08-22  
PRIOR APPLICATION NUMBER: 60/158,780  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3  
LENGTH: 7914  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: rAAV vector with canine B-domain deleted factor  
OTHER INFORMATION: VIII  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (435)...(4730)  
US-10-095-718-3

Query Match 85.6%; Score 857; DB 12; Length 7914;  
Best Local Similarity 91.0%; Pred. No. 1.3e-254;  
Matches 911; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

OY 1 GCCCTTATACCGTGGAGACATAATGAACATTTGGGACCTCGGGCCATATATAGAGC 60  
DB 2966 GCCCTTATACCGTGGAGACATAATGAACATTTGGGACCTCGGGCCATATATAGAGC 3025  
OY 61 AGAAGTTGAAGAT 120  
DB 3026 AGAAGTTGAAGAT 3085  
OY 121 CTATTCAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 180  
DB 3086 CTATTCAGCCTTATTTCTATGAGAGATCAGAGCAAGAGCAAGCAAGCAAGCAAGCA 3145



Db 5809 TGTAGATGCCAATGGAGCTAAGCAGCTGTATCTATCTATTCACAGATCAAGCCTTCA 5868  
Qy 887 GGACAAATATGACAGTGGGCCCCCAAGCTGGCAGACTTCTATTCAGATCAATCAT 946  
Db 5869 GAGTTCTGGGTACTGGGAGCCCGCATTTAGCAAGATTAACATGGTGGATCTTAAAT 5928  
Qy 947 GCGTGGAG 954  
Db 5929 GCTTGGAG 5936

## RESULT 10

US-09-970-966-175  
; Sequence 175, Application US/09970966  
; Patent No. US20020173638A1  
; GENERAL INFORMATION:  
; APPLICANT: Stolk, John A.  
; APPLICANT: Molesh, David Alan  
; APPLICANT: Fling, Steven P.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.4846  
; CURRENT APPLICATION NUMBER: US/09/970,966  
; CURRENT FILING DATE: 2001-10-02  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 175  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-970-966-175

Query Match 13.5%; Score 135; DB 9; Length 3321;  
Best Local Similarity 50.7%; Pred. No. 2.3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGAACTTTGGGACTCTGGGCGCATATATATAGACGAAAGTTGAAGATATATCAT 81  
Db 2403 AGAAGAACATCTGGGAATTTAGGTCCACAACTTCATGAGATGGAGCAAGTCAA 2462  
Qy 82 GGTACTTTCAGAAATCAGGCTCTGCTCCCTATTCCTTATCTTACGCTTATTTCTTA 141  
Db 2463 AATATATCTTTAAACATGGCCACAGGCCCCCTTCAATCAATGCCCC----- 2509  
Qy 142 TGAGGAAGATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 201  
Db 2510 -----ATGGGGTACAAACAGAGAGTTCTACAGTTACCTCCAAATTTACAGCTAATGAAAC 2561  
Qy 202 CAAACTTACTTTTGGAAAGTGCACATCTATGAGCAGCCCATTAAGAGATGATTTGACTG 261  
Db 2562 TCTCACTTACGTATGAAATCCAGAAAGATCTGAGCTGGAACAGAGATCTCTCTTG 2621  
Qy 262 CAAAGCTGGGCTTATTTCTCTGATGTGACCTGGAAGAAAGATGTCACACAGCCTGAT 321  
Db 2622 TATTTCCATGGGCTTATTTATCACTGTGATCAAGTTAAGAGCCTTACAGTGGATTAAT 2681  
Qy 322 TGAGACCCCTTCTGTCTGACACACTAACAACCTGCTCATAGGAGAGCAAGTGAC 381  
Db 2682 TGGCCCCCTGATGTTTGTGGAAGACCTTACTTGAAGATTAATCCAGAAAGAG--- 2739  
Qy 382 AGTACAGATTTGCTCTGTTTTCACATCTTTGATGAGACCAAAAGCTGGTACTTCA 441  
Db 2740 -----CTGGAAATTTGGCTTCTGTTTCTAGTTTGTGATGGAATGATCTTGTACTTAA 2795  
Qy 442 TGAATATATGGAAGAAGATGACAGGCTCCCTGCAATATCCAGATGCCAGCTT 501  
Db 2796 TGACAAATCAAAACATCTCTGATCAACCCGAGAAAGTAAACAAAGATGAGGAAT 2855  
Qy 502 TAAAGGAATATGCTCTCATGCAATCAATGAGCTAATGATGATACACTGCTT 561  
Db 2856 CATAGGAAGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2915

Qy 562 AGTAACTGCTCAGATCAAGATTCAGATGATCTGCTCAGATGGCAGCAATGAAA 621  
Db 2916 CACAATGACAGTGGGAGATCAATCACTGATCTGATGAGGAGATGGCAATGAATTA 2975  
Qy 622 CATCATCTTATTTATTTAGTGTGAGGAGATGTTTCACTGTACGAAAAAAGAGATTA 681  
Db 2976 CTTCACACACTGTACATTTTCAGGCGCATAGCTTCCATACAAAGACAGGAGATTATG 3035  
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Qy 742 AGCTGAATTTGGGCGGAGGAGATGCTTATTTGCGAGCATATCATGCTGGATGAGAC 801  
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Qy 802 ACTTT 806  
Db 3156 CACTT 3160

## RESULT 11

US-09-825-294-175  
; Sequence 175, Application US/09825294  
; Patent No. US20020004491A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Stolk, John A.  
; APPLICANT: Fling, Steven P.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
; FILE REFERENCE: 210121.4845  
; CURRENT APPLICATION NUMBER: US/09/825,294  
; CURRENT FILING DATE: 2001-04-03  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 175  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-825-294-175

Query Match 13.5%; Score 135; DB 10; Length 3321;  
Best Local Similarity 50.7%; Pred. No. 2.3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGAACTTTGGGACTCTGGGCGCATATATATAGACGAAAGTTGAAGATATATCAT 81  
Db 2403 AGAAGAACATCTGGGAATTTAGGTCCACAACTTCATGAGATGGAGCAAGTCAA 2462  
Qy 82 GGTACTTTCAGAAATCAGGCTCTGCTCCCTATTCCTTATCTTACGCTTATTTCTTA 141  
Db 2463 AATATATCTTTAAACATGGCCACAGGCCCCCTTCAATCAATGCCCC----- 2509  
Qy 142 TGAGGAAGATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 201  
Db 2510 -----ATGGGGTACAAACAGAGAGTTCTACAGTTACCTCCAAATTTACAGCTAATGAAAC 2561  
Qy 202 CAAACTTACTTTTGGAAAGTGCACATCTATGAGCAGCCCATTAAGAGATGATTTGACTG 261  
Db 2562 TCTCACTTACGTATGAAATCCAGAAAGATCTGAGCTGGAACAGAGATCTCTCTTG 2621  
Qy 262 CAAAGCTGGGCTTATTTCTCTGATGTGACCTGGAAGAAAGATGTCACACAGCCTGAT 321  
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Qy 322 TGAGACCCCTTCTGTCTGACACACTAACAACCTGCTCATAGGAGAGCAAGTGAC 381  
Db 2682 TGGCCCCCTGATGTTTGTGGAAGACCTTACTTGAAGATTAATCCAGAAAGAG--- 2739  
Qy 382 AGTACAGATTTGCTCTGTTTTCACATCTTTGATGAGACCAAAAGCTGGTACTTCA 441

Db 2740 ----CTGGAATTTGCCCTTCTGTTTCTAGTTTGTGAGAGATGATCTTGACTTGA 2795  
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Db 2796 TGACAAACATCAAAACATATCTGATCACCACCGAAGAAATTAACAAAGATGATGAGAAIT 2855  
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Qy 682 AATGGCACTGATCAATCTATCCAGTGTGTTTGGACAGTGGAAATGTACATCCAA 741  
Db 3036 TTTGATGCTGTTGACATTTTCCCTGGAACATACCAACCCTAGAATGTTTCCAAAG 3095  
Qy 742 AGCTGAATTTGGCGGGTGGAGATGCTTATTTGGGAGATCTACATGCTGGAGATGAG 801  
Db 3096 ACCTGGAATTTGGTTACTCCATGCTGATGACCGACCAATGCTGGAATGGAAC 3155  
Qy 802 ACTTT 806  
Db 3156 CACTT 3160

## RESULT 12

US-09-880-107-2253  
; Sequence 2253, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: Patentln Ver. 2.1  
; SEQ ID NO 2253  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M13699  
US-09-880-107-2253

Query Match 13.5%; Score 135; DB 10; Length 3321;  
Best Local Similarity 50.7%; Pred. No. 2.3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGACATTTGGAGCTCGGGCCATATATAAGACAGAAAGTTGAAGTAATATAT 81  
Db 2403 AGAAGACATCTGGGAATTTAGTTCACCAACTTATCATGATGTTGAGACAAAGTCAA 2462  
Qy 82 GGTAACTTTCAGAAATCAGGCTTCGCTCTATTCCTTCTATTTAGCTTATTTCTTA 141  
Db 2463 AATTAATCTTAAACATGCGCAAGGCCCTACTCATATCATATGCGC----- 2509  
Qy 142 TTAGCAAGATCAGAGGCAAGGACGAACCTTAGAAAAACTTTGTCAAGCTTAATGAAC 201  
Db 2510 -----ATGGGTACAAACAGAGATTTCTACAGTTTCTCAACATTTACAGGTTGAAC 2561

Qy 202 CAAACTTACTTTTGAAGATGCAACATCATATGACCCCACTAAGATGATTTGACTG 261  
Db 2562 TCTCCTTAGCTATGGAATAATCCAGAAAGATCTGGAGCTGGAACAGAGATTTCTGCTTG 2621  
Qy 262 CAAAGCCTGGGCTTATTTCTGATGTTGACCTGGAAGAAAGATGCTACAGGCTGAT 321  
Db 2622 TATTCCTATGGGCTTATTTTCAACTGTGGATCAAGTTAAAGACCTGCACTGATGATTAAT 2681  
Qy 322 TGGACCCCTCTGCTGTCGACACTAACACAGAACCCCTGCTCATGGGAGACAATGAC 381  
Db 2682 TGGCCCTTATTTGTTTGTGGAAGACCTTACTTGAAGTATTAATCCAGAAAGAA-- 2739  
Qy 382 AGTACAGAAATTTGCTGCTGTTTTCACCATCTTGTGATGAGAACCAAGAGCTTACTTCA 441  
Db 2740 ----CTGGAATTTGCCCTTCTGTTTCTAGTTTGTGATGAGAAATGATCTTGACTTGA 2795  
Qy 442 TGAATAATATGAAAGAAATGCAAGGCTCCCTGCAATATCCAGATGGAAGATCCACTTT 501  
Db 2796 TGACAAACATCAAAACATACTCTGATCACCACCGAAGAAAGTAAACAAAGATGAGAAAT 2855  
Qy 502 TAAAGAAATTTATCGCTTCCATGCAATCATGCTTACATATGATATACACTGCTGCTT 561  
Db 2856 CATAGAAAGCAATAAAATGATGCTATTAATGGAAGATGTTGAAACCTGACAAAGGCTT 2915  
Qy 562 AGTATGCTCAGGATCAAGATTCAGATGATGCTGCTGATGATGAGATGAGCAATGAAA 621  
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Qy 622 CATCATTTCTATTTCTTACATGACATGCTGCTACCTAGCAAAAAGAGAGATTA 681  
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Db 3036 TTTGATGCTGTTGACATTTTCCCTGGAACATACCAACCCTAGAATGTTTCCAAAG 3095  
Qy 742 AGCTGAATTTGGCGGGTGGAGATGCTTATTTGGGAGATCTACATGCTGGAGATGAG 801  
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Qy 802 ACTTT 806  
Db 3156 CACTT 3160

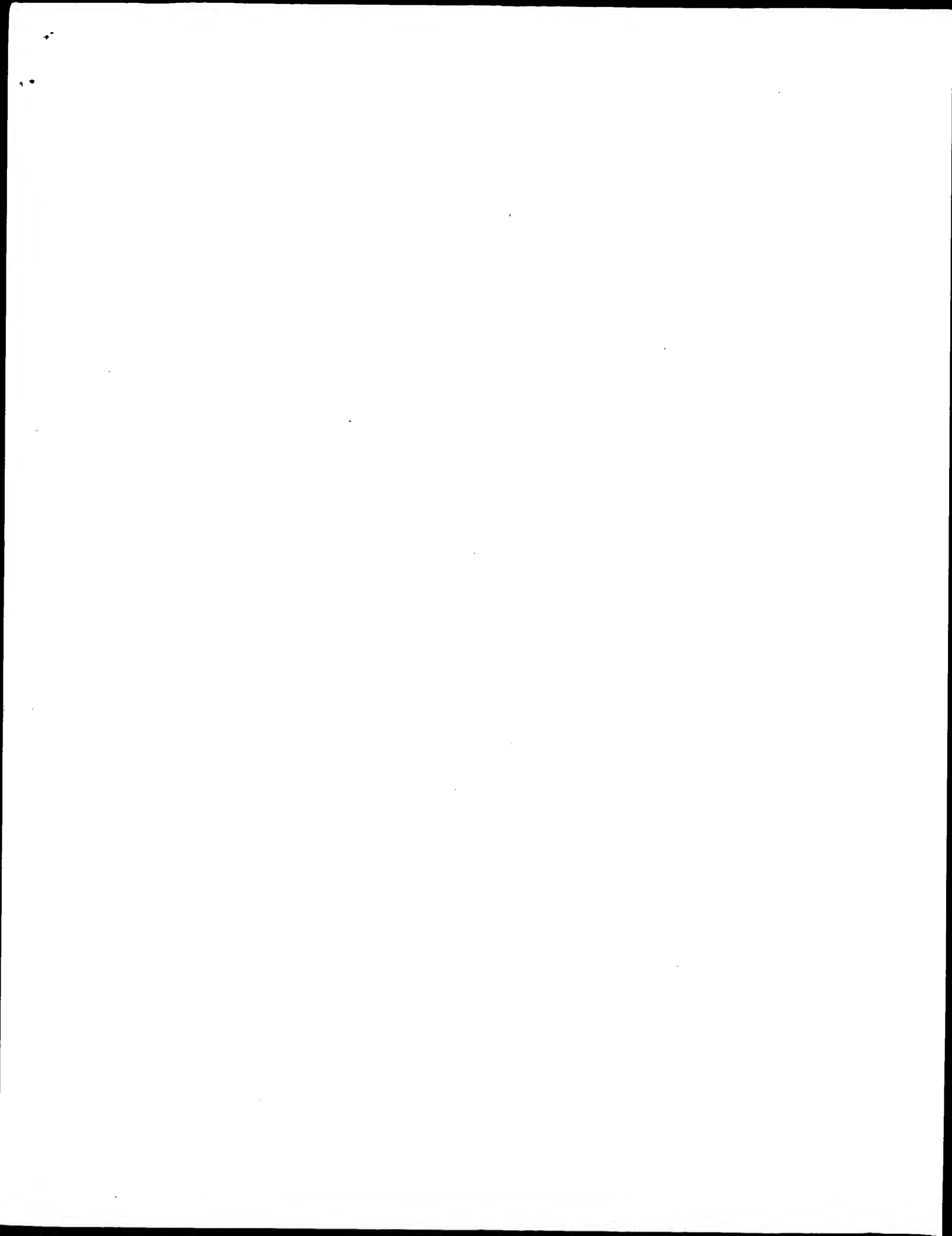
## RESULT 13

US-09-917-800A-1539  
; Sequence 1539, Application US/09917800A  
; Patent No. US20020119462A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Porter, Mark  
; APPLICANT: Johnson, Kory  
; APPLICANT: Castle, Arthur  
; APPLICANT: Blaschoff, Michael  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Molecular Toxicology Modeling  
; FILE REFERENCE: 44921-5038-US  
; CURRENT APPLICATION NUMBER: US/09/917,800A  
; CURRENT FILING DATE: 2001-07-31  
; PRIOR APPLICATION NUMBER: US 60/222,040  
; PRIOR FILING DATE: 2000-07-31  
; PRIOR APPLICATION NUMBER: US 60/222,880  
; PRIOR FILING DATE: 2000-11-02  
; PRIOR APPLICATION NUMBER: US 60/290,029  
; PRIOR FILING DATE: 2001-05-11  
; PRIOR APPLICATION NUMBER: US 60/290,645  
; PRIOR FILING DATE: 2001-05-15  
; PRIOR APPLICATION NUMBER: US 60/292,336  
; PRIOR FILING DATE: 2001-05-22  
; PRIOR APPLICATION NUMBER: US 60/295,798  
; PRIOR FILING DATE: 2001-06-06

? PRIOR APPLICATION NUMBER: US 60/297,457  
 ? PRIOR FILING DATE: 2001-06-13  
 ? PRIOR APPLICATION NUMBER: US 60/298,884  
 ? PRIOR FILING DATE: 2001-06-19  
 ? PRIOR APPLICATION NUMBER: US 60/303,459  
 ? PRIOR FILING DATE: 2001-07-09  
 ? NUMBER OF SEQ ID NOS: 1740  
 ? SOFTWARE: PatentIn Ver. 2.1  
 ? SEQ ID NO 1539  
 ? LENGTH: 3700  
 ? TYPE: DNA  
 ? ORGANISM: *Rattus norvegicus*  
 ? FEATURE:  
 ? OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM\_0125337  
 ? US-09-917-800A-1539







GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

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Title: US-09-740-211-13\_COPY\_8700\_9700

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Scoring table:  
IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents, NA:\*

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4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCUTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	1001	100.0	11933	4	US-09-470-618-13 Sequence 13, Appl
2	1001	100.0	11933	4	US-09-364-862-13 Sequence 13, Appl
3	926.6	92.6	46819	4	US-09-453-702B-72 Sequence 72, Appl
4	575.2	57.5	61663	4	US-09-453-702B-62 Sequence 62, Appl
5	309.9	30.9	309	3	US-09-023-221A-6 Sequence 6, Appl
6	309.9	30.9	309	4	US-09-282-352A-6 Sequence 6, Appl
7	298.8	29.9	760	3	US-09-023-221A-1 Sequence 1, Appl
8	298.8	29.9	760	4	US-09-282-352A-1 Sequence 1, Appl
9	256.4	25.6	378	3	US-09-023-221A-21 Sequence 21, Appl
10	256.4	25.6	378	4	US-09-282-352A-21 Sequence 21, Appl
11	252	25.2	309	3	US-09-023-221A-22 Sequence 22, Appl
12	252	25.2	309	4	US-09-282-352A-22 Sequence 22, Appl
13	224.2	22.4	309	3	US-09-023-221A-5 Sequence 5, Appl
14	224.2	22.4	309	4	US-09-282-352A-5 Sequence 5, Appl
15	59.2	5.9	38584	4	US-09-453-702B-50 Sequence 50, Appl
16	55.8	5.6	26173	4	US-09-453-702B-69 Sequence 69, Appl
17	55.8	5.6	48908	4	US-09-453-702B-137 Sequence 137, App
18	55.2	5.5	45175	4	US-09-453-702B-116 Sequence 116, App
19	54	5.4	38155	4	US-09-453-702B-79 Sequence 79, Appl
20	39	3.9	9048	3	US-08-973-273-4 Sequence 4, Appl
21	37.2	3.7	595	4	US-09-385-982-25 Sequence 25, Appl
22	35.6	3.6	22306	4	US-09-453-702B-251 Sequence 251, App
23	35.6	3.6	34063	4	US-09-453-702B-96 Sequence 96, Appl
24	35.4	3.5	49785	4	US-09-071-035-295 Sequence 295, App
25	35	3.5	1727	4	US-09-071-035-295 Sequence 295, App
26	35	3.5	1839	4	US-09-071-035-293 Sequence 293, Appl
27	34.4	3.4	112132	4	US-09-741-150-3 Sequence 3, Appl

C	28	34.2	3.4	16950	4	US-09-453-702B-166	Sequence 166, App
	29	34	3.4	3680	4	US-09-647-390-15	Sequence 15, Appl
	30	33.6	3.4	1611	6	5213972-6	Patent No. 5213972
	31	33.6	3.4	1817	2	US-08-743-637B-1	Sequence 1, Appl
	32	33.6	3.4	1817	3	US-08-526-840B-1	Sequence 1, Appl
	33	33.4	3.3	1391	2	US-08-950-168-2	Sequence 2, Appl
	34	33.4	3.3	1391	4	US-09-365-705-2	Sequence 2, Appl
	35	33.4	3.3	1404	4	US-09-257-179-34	Sequence 34, Appl
	36	33.4	3.3	9711	4	US-08-961-527-167	Sequence 167, App
	37	33	3.3	566	4	US-09-328-111-452	Sequence 452, App
	38	33	3.3	2400	4	US-08-963-901-1	Sequence 1, Appl
	39	33	3.3	2400	4	US-08-963-901-5	Sequence 5, Appl
	40	33	3.3	2796	1	US-08-261-677-8	Sequence 8, Appl
	41	33	3.3	2796	1	US-08-384-556A-4	Sequence 4, Appl
	42	33	3.3	2796	2	US-08-331-355A-8	Sequence 8, Appl
	43	33	3.3	2796	3	US-08-777-147-5	Sequence 5, Appl
	44	33	3.3	2796	3	US-09-157-077-8	Sequence 8, Appl
	45	33	3.3	2796	5	PCT-US94-12364-8	Sequence 8, Appl

## ALIGNMENTS

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RESULT 1
US-09-470-618-13
: Sequence 13, Application US/09470618
: Patent No. 6200560
: GENERAL INFORMATION:
: APPLICANT: Coulo, Linda B.
: APPLICANT: Colosi, Peter C.
: TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
: TITLE OF INVENTION: by Target Cells
: FILE REFERENCE: Avigen-04082
: CURRENT APPLICATION NUMBER: US/09/470, 618
: CURRENT FILING DATE: 1999-12-22
: EARLIER APPLICATION NUMBER: 09/364, 862
: EARLIER FILING DATE: 1999-07-30
: EARLIER APPLICATION NUMBER: 60/125, 974
: EARLIER FILING DATE: 1999-03-24
: EARLIER APPLICATION NUMBER: 60/104, 994
: EARLIER FILING DATE: 1998-10-20
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 11933
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-470-618-13
Query Match          100.0%   Score 1001; DB 4; Length 11933;
Best Local Similarity 100.0%; Pred. No. 2.1e+283;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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61 GATACACCGGTTTATTTAAAGAGATTAAAGGTTGTAATTTCTCAAGAAC 120
DB 8760 GATACACCGGTTTATTTAAAGAGATTAAAGGTTGTAATTTCTCAAGAAC 8819
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Db 9000 ACACAAATCTTCCAGCTAAATCATACGCTTCCGCTGACACACCGGGCG 9059  
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Db 9060 TTGGCATTAATGCAATACGCTAGCGCGCTAAACCCCTGTGTGCATCGTTTAAATTTCCG 9119  
Qy 421 GACACTCCCGCAGAGAACTTCCCGCTAGCGCTGTGACATAGTAAATCCGGGAATACAA 480  
Db 9120 GACACTCCCGCAGAGAACTTCCCGCTAGCGCTGTGACATAGTAAATCCGGGAATACAA 9179  
Qy 481 TGACGATTCATGACCTGACATACATTAATTAATTAATTAATTAATTAATTAATTAATTA 540  
Db 9180 TGACGATTCATGACCTGACATACATTAATTAATTAATTAATTAATTAATTAATTAATTA 9239  
Qy 541 TTGTTAGGGTTTGTAAATTTTCTACACATACGATTTCTGCAACTTCAAAAAGCATCCG 600  
Db 9240 TTGTTAGGGTTTGTAAATTTTCTACACATACGATTTCTGCAACTTCAAAAAGCATCCG 9299  
Qy 601 GAATACACCATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660  
Db 9300 GAATACACCATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 9359  
Qy 661 TGGCAACAGACGTTTACGTGTCAAAACCAACGCGAGAGATGACCAAAAGAACCAT 720  
Db 9360 TGGCAACAGACGTTTACGTGTCAAAACCAACGCGAGAGATGACCAAAAGAACCAT 9419  
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Db 9420 CACCCATCATTTCTGCTTCTGGAATTTGGGAGAAAAAATGTCATGACGCCAAAT 9479  
Qy 781 TTGTGGCGGGGAGAAAAATGTTTAAACAGAAACCCAGCAAACTTGTAAATGAGAT 840  
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Qy 961 ACTTGTGGGTTCTTCCAGTGTGTTTGGATAGTGCAGC 1001  
Db 9660 ACTTGTGGGTTCTTCCAGTGTGTTTGGATAGTGCAGC 9700

RESULT 2  
US-09-364-862-13  
Sequence 13. Application US/09364862  
Patent No. 6221349  
GENERAL INFORMATION:  
APPLICANT: Couto, Linda B.  
APPLICANT: Colosi, Peter C.  
TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII  
TITLE OF INVENTION: BY TARGET  
TITLE OF INVENTION: CELLS  
FILE REFERENCE: AVIGEN-03743  
CURRENT APPLICATION NUMBER: US/09/364,862  
CURRENT FILING DATE: 1999-07-30  
EARLIER APPLICATION NUMBER: 60/125,974  
EARLIER FILING DATE: 1999-03-24  
EARLIER APPLICATION NUMBER: 60/104,994  
EARLIER FILING DATE: 1998-10-20  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 13  
LENGTH: 11933  
TYPE: DNA

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: synthetic  
US-09-364-862-13  
Query Match 100.0%; Score 1001; DB 4; Length 11933;  
Best Local Similarity 100.0%; Pred. No. 2,1e-283;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Qy 61 GATTAACCGGTTTAAATTAAGAGCTTAAAGAGTTGTAATTTGTAATTTGTAATTTGTAATTTGTA 120  
Db 8760 GATTAACCGGTTTAAATTAAGAGCTTAAAGAGTTGTAATTTGTAATTTGTAATTTGTAATTTGTA 8819  
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Db 8880 TACAGGAAAAATCTTGTCTAAAGCAGAGCTTTCCGATGAGTTTACAAATATTCATGAACAT 8939  
Qy 241 AAAAGATATTACTATACCTTGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 300  
Db 8940 AAAAGATATTACTATACCTTGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 8999  
Qy 301 ACACAAATCTTCCAGCTAAATCATACGTCGCTTCTCCGTCGACAGACCGGGCG 360  
Db 9000 ACACAAATCTTCCAGCTAAATCATACGTCGCTTCTCCGTCGACAGACCGGGCG 9059  
Qy 361 TTGGCATTAATGCAATACGCTAGCGCGCTAAACCCCTGTGTGCATCGTTTAAATTTCCG 420  
Db 9060 TTGGCATTAATGCAATACGCTAGCGCGCTAAACCCCTGTGTGCATCGTTTAAATTTCCG 9119  
Qy 421 GACACTCCCGCAGAGAACTTCCCGCTGAGGCTGTGACATAGTAAATCCGGGAATACAA 480  
Db 9120 GACACTCCCGCAGAGAACTTCCCGCTGAGGCTGTGACATAGTAAATCCGGGAATACAA 9179  
Qy 481 TGACGATTCATGACCTGACATACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 540  
Db 9180 TGACGATTCATGACCTGACATACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 9239  
Qy 541 TTGTTAGGGTTTGTAAATTTTCTACACATACGATTTCTGCAACTTCAAAAAGCATCCG 600  
Db 9240 TTGTTAGGGTTTGTAAATTTTCTACACATACGATTTCTGCAACTTCAAAAAGCATCCG 9299  
Qy 601 GAATACACCATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660  
Db 9300 GAATACACCATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 9359  
Qy 661 TGGCAACAGACGTTTACGTGTCAAAACCAACGCGAGAGATGACCAAAAGAACCAT 720  
Db 9360 TGGCAACAGACGTTTACGTGTCAAAACCAACGCGAGAGATGACCAAAAGAACCAT 9419  
Qy 721 CACCCATCATTTCTGCTTCTGGAATTTGGGAGAAAAAATGTCATGACGCCAAAT 780  
Db 9420 CACCCATCATTTCTGCTTCTGGAATTTGGGAGAAAAAATGTCATGACGCCAAAT 9479  
Qy 781 TTGTGGCGGGGAGAAAAATGTTTAAACAGAAACCCAGCAAACTTGTAAATGAGAT 840  
Db 9480 TTGTGGCGGGGAGAAAAATGTTTAAACAGAAACCCAGCAAACTTGTAAATGAGAT 9539  
Qy 841 GCTCGGTTTAACTTTAGGCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 900  
Db 9540 GCTCGGTTTAACTTTAGGCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 9599  
Qy 901 ATAAATGATGAGTGGCCATGCGATGATGAGCAATGAGCAATGATGATGATGATGATGATGATGATG 960  
Db 9600 ATAAATGATGAGTGGCCATGCGATGATGAGCAATGAGCAATGATGATGATGATGATGATGATGATG 9659

QY 961 ACTTCGGTCCCTCCAGTTGTTTTCATAGTATGAC 1001  
| | | | |  
Db 9660 ACTTCTGGTCTCTCCAGTTGTTTTCATAGTATGAC 9700

## RESULT 3

US-09-453-702B-72/c

: Sequence 72, Application US/09453702B

: Patent No. 6365723

## GENERAL INFORMATION:

: APPLICANT: Blatner, Frederick R.

: Burland, Valerie

: Perna, Nicole T.

: Plunkett, Guy

: Welch, Rod

: TITLE OF INVENTION: No. 6365723el Sequences of E. coli 0157

: NUMBER OF SEQUENCES: 265

: CORRESPONDENCE ADDRESS:

: STREET: 1 South Pluckney Street

: CITY: Madison

: STATE: WI

: COUNTRY: US

: ZIP: 53701-2113

: COMPUTER READABLE FORM:

: MEDIUM TYPE: Diskette, 3.50 inch, 1.44Mb storage

: OPERATING SYSTEM: IBM PC compatible

: SOFTWARE: Word Perfect 8.0

: CURRENT APPLICATION DATA:

: APPLICATION NUMBER: US/09/453,702B

: FILING DATE: 03-Dec-1999

: CLASSIFICATION: &lt;Unknown&gt;

: PRIOR APPLICATION DATA:

: APPLICATION NUMBER: 60/110,955

: FILING DATE: 04-Dec-1998

: ATTORNEY/AGENT INFORMATION:

: NAME: Seay, Nicholas J.

: REGISTRATION NUMBER: 27386

: REFERENCE/DOCKET NUMBER: 960296, 95017

: TELECOMMUNICATION INFORMATION:

: TELEPHONE: (608) 251-5000

: TELEFAX: (608) 251-9166

: INFORMATION FOR SEQ ID NO: 72:

: SEQUENCE CHARACTERISTICS:

: LENGTH: 46819

: TYPE: nucleic acid

: STRANDEDNESS: double

: TOPOLOGY: linear

: MOLECULE TYPE: DNA (genomic)

: SEQUENCE DESCRIPTION: SEQ ID NO: 72:

US-09-453-702B-72

Query Match 92.6%; Score 926.6; DB 4; Length 46819;

Best Local Similarity 97.2%; Pred. No. 2.5e-261;

Matches 975; Conservative 0; Mismatches 24; Indels 4; Gaps 3;

QY 1 AAGTCCTCATTTATTTACTATCTAGCCACAGATAATATTCACATGCTGTAGAAAC 60  
| | | | |  
Db 10601 AAGTCCTCATTTATTTACTATCTAGCCACAGATAATATTCACATGCTGTAGAAAC 10542

QY 61 GATTAACACCGTGTAAATAAGACTTAAAGAGTTGTAATCTTAATTCACAGAAAC 120  
| | | | |  
Db 10541 GATTAACACCGTGTAAATAAGACTTAAAGAGTTGTAATCTTAATTCACAGAAAC 10482

QY 121 AGCCATCTTATAGAAACGCTCATGATAGCTTGAATCAAGAAATTCATTCACGAA 180  
| | | | |  
Db 10481 AGCCATCTTATAGAAACGCTCATGATAGCTTGAATCAAGAAATTCATTCACGAA 10422

QY 181 TACAGGAAATCTGCTAAGAGAGAGTTCCGATGCTTACAAATATCATGCAACAT 240  
| | | | |  
Db 10421 TACAGGAAATCTGCTAAGAGAGAGTTCCGATGCTTACAAATATCATGCAACAT 10362

QY 241 AAAGATATTTACTATACCTTTGATTAATTCATTTACTATTTACTAGAGACATTCAGAACACT 300  
| | | | |  
Db 10361 AAAGATATTTACTATACCTTTGATTAATTCATTTACTATTTACTAGAGACATTCAGAACACT 10302

QY 301 ACACAAATCTTTCACGCTTAATCATAGCTCCGGTTTCTTCGCTGTACAGCACCAGGAGCG 360  
| | | | |  
Db 10301 ACACAAATCTTTCACGCTTAATCATAGCTCCGGTTTCTTCGCTGTACAGCACCAGGAGCG 10242

QY 361 TTGGCATTAATGCATATAGCTGTAGCGGCTAAACCTGTGTGATGCTT -TTAATTAATTC 419  
| | | | |  
Db 10241 TTGGCATTAATGCATATAGCTGTAGCGGCTAAACCTGTGTGATGCTTATTAATTAATTC 10182

QY 420 GGACACTCCGCGACAGAGAG--TTCCCGCTCAGGGCTGTGACATAGTTAATCCGGAATAC 478  
| | | | |  
Db 10181 GGACACTCCGCGACAGAGAGTTTCCCTGTAGGGGTGGGACATAGTTAATCCGGAATAC 10122

QY 479 AATGACATTCATTCGACCTGACATATATTAATTAATTAATTAATTAATTAATTAATTA 538  
| | | | |  
Db 10121 AATGACATTCATTCGACCTGACATATTAATTAATTAATTAATTAATTAATTAATTA 10062

QY 539 CATGTTTAGGGTGTGTTTAAATTTTTCACATATAGCATTTCTGGGAATTCGAAAGCATC 598  
| | | | |  
Db 10061 CATGTTTAGGGTGTGTTTAAATTTTTCACATATAGCATTTCTGGGAATTCGAAAGCATC 10002

QY 599 GGGATTAACACCATGAATAAATGCTACTGCTACTGCGTGGCCCTCTTATTAACAGA 658  
| | | | |  
Db 10001 GGGATTAACACCATGAATAAATGCTACTGCTACTGCGTGGCCCTCTTATTAACAGA 9942

QY 659 TGTCTCAACAGACGTTTACTGTTCAAAACAAACCGGACAGTAGACCAAGAAAGAAC 718  
| | | | |  
Db 9941 TGTCTCAACAGACGTTTACTGTTCAAAACAAACCGGACAGTAGACCAAGAAAGAAC 9882

QY 719 ATCACCACATCTTCTGTTTCTGGAATGGGAGAGAAACTGTGCATGACGCCAA 778  
| | | | |  
Db 9881 ATCACCACATCTTCTGTTTCTGGAATGGGAGAGAAACTGTGCATGACGCCAA 9822

QY 779 ATTTGTGGCGGCGAGAAATGTTTAAACAGAAACCCAGCAACATTCGTAAATGA 838  
| | | | |  
Db 9821 ATTTGTGGCGGCGAGAAATGTTTAAACAGAAACCCAGCAACATTCGTAAATGA 9762

QY 839 TTGCTCGGTTTATTTACTTTAGGATTTAATCTCCGTGGAAGCGCTGTATGCTCA 898  
| | | | |  
Db 9761 TTGCTCGGTTTATTTACTTTAGGATTTAATCTCCGTGGAAGCGCTGTATGCTCA 9702

QY 899 CAATAATTCATGAGTTGCCATGCGATATGAGCACTATCTATCTGACATGCTATTAAT 958  
| | | | |  
Db 9701 CAATAATTCATGAGTTGCCATGCGATATGAGCACTATCTATCTGACATGCTATTAAT 9644

QY 959 ATACTTGTGGGTTCTTCCAGTTGTTTTCATATGATGATCAGC 1001  
| | | | |  
Db 9643 ATACTTGTGGGTTCTTCCAGTTGTTTTCATATGATGATCAGC 9601

## RESULT 4

US-09-453-702B-62/c

: Sequence 62, Application US/09453702B

: Patent No. 6365723

## GENERAL INFORMATION:

: APPLICANT: Blatner, Frederick R.

: Burland, Valerie

: Perna, Nicole T.

: Plunkett, Guy

: Welch, Rod

: TITLE OF INVENTION: No. 6365723el Sequences of E. coli 0157

: NUMBER OF SEQUENCES: 265

: CORRESPONDENCE ADDRESS:

: STREET: 1 South Pluckney Street

: CITY: Madison

: STATE: WI

: COUNTRY: US

: ZIP: 53701-2113

: COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 Inch, 1.44MB storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 8.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/453,702B  
FILING DATE: 03-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/110,955  
FILING DATE: 04-DEC-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J.  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296,95017  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (608) 251-5000  
TELEFAX: (608) 251-9166  
INFORMATION FOR SEQ ID NO: 62:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 61663  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 62:  
US-09-453-702B-62

Query Match 57.5%; Score 575.2; DB 4; Length 61663;  
Best Local Similarity 98.2%; Pred. No. 2,7e-158;  
Matches 603; Conservative 0; Mismatches 8; Indels 3; Gaps 2;

QY 389 AAACCGCTGTGCATGCTGTTTATTTATTTCCCGACACTCCCGCAGAGAAATCCCGC 447  
DB 28589 AAACCGCTGTGCATGCTGTTTATTTATTTCCCGACACTCCCGCAGAGAAATCCCGC 28530  
QY 448 AGGCGTGTGCATGCTGTTTATTTCCGGAAATGAGATGATTCGACCTGACATACAT 507  
DB 28529 AGGCGTGTGCATGCTGTTTATTTCCGGAAATGAGATGATTCGACCTGACATACAT 28470  
QY 508 TAATTAATTTATTAACAATATTAATTTCACTGTTTGGGTTTGTATTTTCTAC 567  
DB 28469 TAATTAATTTATTAACAATATTAATTTCACTGTTTGGGTTTGTATTTTCTAC 28410  
QY 568 ACATAGCATCTGCGAAGCTTCAAAAAGCATGGGAATTAACCATGAAAAAATGCTACT 627  
DB 28409 ACATAGCATCTGCGAAGCTTCAAAAAGCATGGGAATTAACCATGAAAAAATGCTACT 28350  
QY 628 CGCTACTGCGTGGCCCTGCTTATTAACAGATGCTCAACAGACGTTTACTGTTCAAA 687  
DB 28349 CGCTACTGCGTGGCCCTGCTTATTAACAGATGCTCAACAGACGTTTACTGTTCAAA 28290  
QY 688 CAACCGCGCAGCATGACACCAAGAACCATCACCATCTTTGTTTCTGAAT 747  
DB 28289 CAACCGCGCAGCATGACACCAAGAACCATCACCATCTTTGTTTCTGAAT 28230  
QY 748 TGGGCAAGAAAACTGCGATGAGCAAAATTTGGGGGCGCAGAAAAATTTGTTAA 807  
DB 28229 TGGGCAAGAAAACTGCGATGAGCAAAATTTGGGGGCGCAGAAAAATTTGTTAA 28170  
QY 808 AACAGAAACCCAGCAAAATTTGCTAAATGATGCTGCTGTTTATTTACTTTAGCATTTA 867  
DB 28169 AACAGAAACCCAGCAAAATTTGCTAAATGATGCTGCTGTTTATTTACTTTAGCATTTA 28110  
QY 868 TACTCCGCTGGAAGCGGCTGTATTTGCTACAAATATTGCAATGATGCTGCTGCTGCT 927  
DB 28109 TACTCCGCTGGAAGCGGCTGTATTTGCTACAAATATTGCAATGATGCTGCTGCTGCT 28052  
QY 928 ATGGGCAACTTATTCGACATGCTCATTTAATATTTCTGGGGTCTTCCAGTTGTTTT 987  
DB 28051 ATGGGCAACTTATTCGACATGCTCATTTAATATTTCTGGGGTCTTCCAGTTGTTTT 27992  
QY 988 GCATAGTATGATCAGC 1001

DB 27991 GCATAGTATGATCAGC 27978

RESULT 5  
US-09-023-221A-6  
Sequence 6, Application US/09023221A  
Patent No. 6087128  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GERHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,221A  
FILING DATE: 12-FEB-1998  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255,00010101  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-023-221A-6

Query Match 30.9%; Score 309; DB 3; Length 309;  
Best Local Similarity 100.0%; Pred. No. 2.5e-81;  
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACTGCTACGCTGCGTGGCCCTGTTATTACA 655  
DB 1 ATCGGGAATTAACACATGAAAAAATGCTACTGCTACGCTGCGTGGCCCTGTTATTACA 60  
QY 656 GGATGTGCTCAACAGACGTTTACTGTTCAAAACCAACCGCAGCAGTATGACCAAGAA 715  
DB 61 GGATGTGCTCAACAGACGTTTACTGTTCAAAACCAACCGCAGCAGTATGACCAAGAA 120  
QY 716 ACCATCACCATCATTTCTTCTGTTCTGAAATTTGGGCAAGAAATCTGTGATGACGCC 775  
DB 121 ACCATCACCATCATTTCTTCTGTTCTGAAATTTGGGCAAGAAATCTGTGATGACGCC 180  
QY 776 AAAATTTGGGGGCGCAGAAAAATGTTGTTAAACAGAAACCCAGCAAACTTGTAAAT 835  
DB 181 AAAATTTGGGGGCGCAGAAAAATGTTTAAACAGAAACCCAGCAAACTTGTAAAT 240  
QY 836 GGATGTGCTGCTTATTTACTTTAGGCAATTTATCTCGCTGGAAGCGCGTGTATTGC 895  
DB 241 GGATGTGCTGCTTATTTACTTTAGGCAATTTATCTCGCTGGAAGCGCGTGTATTGC 300  
QY 896 TCACATATA 904  
DB 301 TCACATATA 309





OY	775	CAAAATTGTGCGGCCACAGAAATGTTGTTAAACGAAACCAGCAAACTTCGAAA	834
Db	213	CAAAATTGTGTGGCGGTGCAGAAAAATGTTGTTAAAAACGAAACTCAGCAAACTTCGAAA	272
OY	835	TGGAATGCTGCGTTAATTATACTTAGCCATTTATATACCCGCTGGAACCGCGTGATTTG	894
Db	273	TGGATGTGCTGCTTTATACACTTTTGGCATCTATACTCCGCTGGAAAGCCGGGTATATTG	332
OY	895	CTCACAAATTAATTCG	908
Db	333	CTCACAAATTAATTCG	346

```

1      RESULT 10 352A-21
2      US-09-282-352A-21
3      Sequence 21, Application US/09282352A
4      Patent No. 6187321
5      GENERAL INFORMATION:
6      APPLICANT: NOLAN, LISA K.
7      APPLICANT: HORNE, SHELLEY M.
8      APPLICANT: ROBINSON, MICHAEL
9      TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS
10     NUMBER OF SEQUENCES: 22
11     CORRESPONDENCE ADDRESS:
12     ADDRESSEE: MEETING, RAASCH & GEBHARDT P.A.
13     STREET: 119 NORTH FOURTH STREET, SUITE 203
14     CITY: MINNEAPOLIS
15     STATE: MN
16     COUNTRY: U.S.A.
17     ZIP: 55401
18     COMPUTER READABLE FORM:
19     MEDIUM TYPE: Floppy disk
20     COMPUTER: IBM PC COMPATIBLE
21     OPERATING SYSTEM: PC-DOS/MS-DOS
22     SOFTWARE: PatentIn Release #1.0, Version #1.30
23     CURRENT APPLICATION DATA:
24     APPLICATION NUMBER: US/09/282,352A
25     FILING DATE: 31-MAR-1999
26     CLASSIFICATION:
27     PRIOR APPLICATION DATA:
28     APPLICATION NUMBER: US 09/023,221
29     FILING DATE: 12-FEB-1998
30     ATTORNEY/AGENT INFORMATION:
31     NAME: SANBERG MS., VICTORIA A.
32     REGISTRATION NUMBER: 41,287
33     REFERENCE/DOCKET NUMBER: 255,00010102
34     TELECOMMUNICATION INFORMATION:
35     TELEPHONE: (612) 305-1226
36     TELEFAX: (612) 305-1228
37     INFORMATION FOR SEQ ID NO: 21:
38     SEQUENCE CHARACTERISTICS:
39     LENGTH: 378 base pairs
40     TYPE: nucleic acid
41     STRANDEDNESS: single
42     TOPOLOGY: linear
43     MOLECULE TYPE: DNA (genomic)
44     US-09-282-352A-21

```

Query Match	25.6%;	Score 256.4;	DB 4;	Length 378;
Best Local Similarity	88.5%;	Pred. No. 7e-66;		
Matches 278;	Conservative	0;	Mismatches 36;	Indels 0;
				Gaps 0;

QY	595	CATCGGGAATACACACATGAAAAAATGCTCTCGTGCACACGCGTGGCCCTGGTATTAC	654
Db	33	CATGACGGATTAAGATGAAAAAATGTATTTCTTCCGCTCTGGCAATGCTATTAC	92
QY	655	AGAGTGTGTCACAGACGTTTACTGTCMAACAAACCGGACACAGTACACCAAGA	714
Db	93	AGAGTGTGTCACAAACGTTTACTGTTGGAAACAAACCGACAGTAACACCAAAAGA	152
QY	715	AACCATCACCCATCTTCTCGTTCTGGAATGGGAGAAAGAACTGTCATGCAGC	774
Db	153	AACCATCATCTCAATTTCTTCGTTTCGGGAATTGGACAGAGAAACCTGTTGATGCAGC	212

Qy	775	CAAAATTTGTGTGGCGCGAGAAAATSTGTTTAAACAGAAACCAGCAAACTTCGTAAA	834
Db	213	CAAAATTTGTGTGGCGGTGAGAAAATGTTGTTAAACAGAAACTGAGAAACATTCGTAAA	272
Qy	835	TGGAATTCGTGGGTTTTATTACTTATAGCAATTATATCCCGCTGGAAACGGGTGTGTAATG	894
Db	273	TGGATTCGTCCGTTTATATACCTTTTGGCATCTATACCTCCGCTGSAACCCGGGTATATTG	332
Qy	895	CTCACAATAAATTGC	908
Db	333	CTCACAATAAATTGC	346

```

US-09-023-221A-22
; Sequence 22, Application US/09023221A
; Patent No. 6087128
; GENERAL INFORMATION:
; APPLICANT: NOLAN, LISA K.
; APPLICANT: HORNE, SHELLEY M.
; TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.
; STREET: 119 NORTH FOURTH STREET, SUITE 203
; CITY: MINNEAPOLIS
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,221A
; FILING DATE: 12-FEB-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: SANDBERG MS., VICTORIA A.
; REGISTRATION NUMBER: 41,287
; REFERENCE/DOCKET NUMBER: 255.00010101
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (612) 305-1226
; TELEFAX: (612) 305-1228
; INFORMATION FOR SEO ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-023-221A-22

```

Query Match	25.2%	Score 252;	DB 3;	Length 309;
Best Local Similarity	88.6%	Pred. No. 1.2e-64;		
Matches 273;	Conservative	0;	Mismatches 35;	Indels 0;
				Gaps 0;

QY	596	ATTCGGSAATACACCATGAAAAAAATGCTACTCGCTACTCGCGCGGCGCCGCTATTATACA	655
QY			
Db	1	ATGCAGAAATTAATAGATGAAAAAAATGTTATTATTTCTGCGCGCTCGGAAAGCTTATTACA	60
QY	656	GGATGTCCTCAACACACGCTTACCTGTCAAAAACAACCGCGAGCAGTACGACCAAGAA	715
QY			
Db	61	GGATGTCCTCAACAAACGTTTACTGTTGAAAACAACCGAGCAGTACCAACAAAGAA	120
QY	716	ACCATCACCACATCTTCTGTGTTCTGGAATTTGGGCGAGAAACCTGCGATGACGCC	775
QY			
Db	121	ACCATCACCACATCTTCTGTGTTCTGCGGGAATTTGACACAGAAACACTGTGATGACGCC	180
QY	776	AAATTTGTGGGGGCGGCAAAAATTGTTAAAACAGAAACCCAGCAAACTTGTGTAAT	835
QY			



Db 181 AAAATTGTCGGCGTCAGAGAAAATGTTTAAACAGAAACAGCAACATTCGTAAAT 240  
QY 836 GGATTCGTCGGTTTATTTACTTTAGCATTTTATCTCCGTCGGAAGCGCGTGTATTGC 895  
Db 241 GGATTCGTCGGTTTATTTACTTTAGCATTTTATCTCCGTCGGAAGCGCGTGTATTGC 300  
QY 896 TCACATA 903  
Db 301 TCACATA 308

## RESULT 12

US-09-282-352A-22  
Sequence 22, Application US/09282352A  
Patent No. 6187321  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
APPLICANT: ROBINSON, MICHAEL  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/282,352A  
FILING DATE: 31-MAR-1999  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 09/023,221  
FILING DATE: 12-FEB-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255.00010102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-282-352A-22

Query Match 25.2%; Score 252; DB 4; Length 309;  
Best Local Similarity 88.6%; Pred. No. 1,2e-64;  
Matches 273; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACGCTACTGCGCTGCGCTGCTATTATTA 655  
Db 1 ATCGAGGATTAATTAAGATGAAAAAATGTTTCTGCGCGCTGCAATGCTATTATTA 60  
QY 656 GGATTCGTCAGACAGCTTTACTGTTCAAAACAGCGGACAGTACGACCAAGAA 715  
Db 61 GGATTCGTCAGACAAACGTTTACTGTTGAAACAAACGACAGTACACCAAGAA 120  
QY 716 ACCATCACCACATTTCTGTTCTGAAATTTGGCAGAGAAAATGTCGATGACACC 775  
Db 121 ACCATCACCACATTTCTGTTCTGAAATTTGGCAGAGAAAATGTCGATGACACC 180  
QY 776 AAAATTGTCGGCGTCAGAGAAAATGTTTAAACAGAAACCAACCAATTCGTAAAT 835

Db 181 AAAATTGTCGGCGTCAGAGAAAATGTTTAAACAGAAACAGCAACATTCGTAAAT 240  
QY 836 GGATTCGTCGGTTTATTTACTTTAGCATTTTATCTCCGTCGGAAGCGCGTGTATTGC 895  
Db 241 GGATTCGTCGGTTTATTTACTTTAGCATTTTATCTCCGTCGGAAGCGCGTGTATTGC 300  
QY 896 TCACATA 903  
Db 301 TCACATA 308

## RESULT 13

US-09-023-221A-5  
Sequence 5, Application US/09023221A  
Patent No. 6087128  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,221A  
FILING DATE: 12-FEB-1998  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255.00010101  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-023-221A-5

Query Match 22.4%; Score 224.2; DB 3; Length 309;  
Best Local Similarity 87.1%; Pred. No. 1,7e-56;  
Matches 269; Conservative 0; Mismatches 38; Indels 2; Gaps 2;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACGCTACTGCGCTGCGCTGCTATTATTA 655  
Db 1 ATCGAGGATTAATTAAGATGAAAAAATGTTTCTGCGCGCTGCAATGCTATTATTA 60  
QY 656 GGATTCGTCAGACAGCTTTACTGTTCAAAACAGCGGACAGTACGACCAAGAA 715  
Db 61 GGATTCGTCAGACAAACGTTTACTGTTGAAACAAACGACAGTACACCAAGAA 120  
QY 716 ACCATCACCACATTTCTGTTCTGAAATTTGGCAGAGAAAATGTCGATGACACC 775  
Db 121 ACCATCACCACATTTCTGTTCTGAAATTTGGCAGAGAAAATGTCGATGACACC 179  
QY 776 AAAATTGTCGGCGTCAGAGAAAATGTTTAAACAGAAACCAACCAATTCGTAAAT 834  
Db 180 AAAATTGTCGGCGTCAGAGAAAATGTTTAAACAGAAACCAACCAATTCGTAAAT 239



Thu Jan 9 10:11:53 2003

us-09-740-211-13\_copy\_8700\_9700.rni

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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OW nucleic - nucleic search, using sw model

Run on: January 4, 2003, 04:59:31 ; Search time 53.5 Seconds  
(without alignments)  
8092.278 Million cell updates/sec

Title: US-09-740-211-13\_COPY\_8700\_9700  
Perfect score: 1001  
Sequence: 1 aacgtccacattatattta.....gttttcacatgacgacg 1001

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 381593 seqs, 216252194 residues  
Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications NA:  
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2: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*  
3: /cgn2\_6/ptodata/2/pubpna/US05\_PUBCOMB.seq:\*  
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11: /cgn2\_6/ptodata/2/pubpna/US11\_PUBCOMB.seq:\*  
12: /cgn2\_6/ptodata/2/pubpna/US12\_PUBCOMB.seq:\*  
13: /cgn2\_6/ptodata/2/pubpna/US13\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/2/pubpna/US14\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1001	100.0	11933	9 US-10-007-968-13	Sequence 13, Appl
2	1001	100.0	11933	10 US-09-740-211-13	Sequence 13, Appl
3	309	30.9	309	10 US-09-738-599-6	Sequence 6, Appl
4	298.8	29.9	760	10 US-09-738-599-1	Sequence 1, Appl
5	256.4	25.6	378	10 US-09-738-599-21	Sequence 21, Appl
6	252	25.2	309	10 US-09-738-599-22	Sequence 22, Appl
7	224.2	22.4	309	10 US-09-738-599-5	Sequence 5, Appl
8	40.8	4.1	627	10 US-09-728-446-280	Sequence 280, Appl
9	40.8	4.1	3758	9 US-10-108-605-118	Sequence 118, Appl
10	38.4	3.8	361	10 US-09-960-352-7535	Sequence 7535, Ap
11	35.8	3.6	302	10 US-09-969-373-413	Sequence 413, Ap
12	35.8	3.6	302	10 US-09-969-373-417	Sequence 417, Ap
13	35.8	3.6	1823	9 US-09-938-842A-4744	Sequence 4744, Ap
14	35.8	3.6	2000	9 US-09-938-842A-3589	Sequence 3589, Ap
15	35.8	3.6	25950	10 US-09-764-870-597	Sequence 597, Ap
16	35	3.5	1038	9 US-09-938-842A-3994	Sequence 3994, Ap
17	35	3.5	1040	10 US-09-887-576-696	Sequence 696, Ap
18	35	3.5	6945	10 US-09-764-887-314	Sequence 314, Ap
19	35	3.5	7657	10 US-09-070-927A-33	Sequence 33, Appl

20	35	3.5	8354	9 US-10-125-818-1	Sequence 1, Appl
21	34.8	3.5	380	10 US-09-864-761-3795	Sequence 3795, Ap
22	34.6	3.5	578	10 US-09-815-242-2027	Sequence 2027, Ap
23	34.6	3.5	669	10 US-09-815-242-8992	Sequence 8992, Ap
24	34.6	3.5	672	10 US-09-815-242-4834	Sequence 4834, Ap
25	34.6	3.5	2732	10 US-09-771-161A-90	Sequence 90, Appl
26	34.4	3.4	492	9 US-09-796-692-7148	Sequence 7148, Ap
27	34.4	3.4	633	10 US-09-861-451A-37	Sequence 37, Appl
28	34.2	3.4	432	10 US-09-960-352-14612	Sequence 14612, A
29	34.2	3.4	479	10 US-09-783-590-4423	Sequence 4423, Ap
30	34.2	3.4	479	10 US-09-783-590-4423	Sequence 4549, Ap
31	34	3.4	1181	9 US-09-938-842A-4549	Sequence 4549, Ap
32	33.8	3.4	684973	10 US-09-263-959-1	Sequence 1, Appl
33	33.8	3.4	21784	10 US-09-820-002-3	Sequence 3, Appl
34	33.8	3.4	172637	10 US-09-805-458A-3	Sequence 3, Appl
35	33.6	3.4	444	10 US-09-960-352-13335	Sequence 13335, A
36	33.6	3.4	1817	10 US-09-452-599-1	Sequence 1, Appl
37	33.6	3.4	2463	10 US-09-842-552-106	Sequence 106, Ap
38	33.6	3.4	3280	10 US-09-842-552-80	Sequence 80, Appl
39	33.6	3.4	4951	10 US-09-070-927A-261	Sequence 261, Ap
40	33.4	3.3	483	10 US-09-880-107-2669	Sequence 2669, Ap
41	33.4	3.3	1325	10 US-09-765-205-1	Sequence 1, Appl
42	33.4	3.3	1333	9 US-09-978-295A-321	Sequence 321, Ap
43	33.4	3.3	1333	9 US-09-978-697-321	Sequence 321, Ap
44	33.4	3.3	1333	9 US-09-978-192A-321	Sequence 321, Ap
45	33.4	3.3	1333	9 US-09-999-832A-321	Sequence 321, Ap
				US-10-044-477-2	Sequence 2, Appl

## ALIGNMENTS

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RESULT 1
US-10-007-968-13
Sequence 13, Application US/10007968
Patent No. US2002015997A1
GENERAL INFORMATION:
APPLICANT: Couto, Linda B.
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
TITLE OF INVENTION: by Target Cells
FILE REFERENCE: Axiogen-04082
CURRENT FILING DATE: 2001-12-13
PRIOR APPLICATION NUMBER: 09/740,211
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: 60/125,974
PRIOR FILING DATE: 1999-03-24
PRIOR APPLICATION NUMBER: 60/104,994
PRIOR FILING DATE: 1998-10-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 11933
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-007-968-13
Query Match 100.0%: Score 1001; DB 9; Length 11933;
Best Local Similarity 100.0%; Pred. No. 4.6e-251;
Matches 1001: Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 AACGTCCTCATTAATTACTATCTAGCCACAGATAATATTCACATCGTGTAGAAAC 60
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DB 8700 AACGTCCTCATTAATTACTATCTAGCCACAGATAATATTCACATCGTGTAGAAAC 8759
QY 61 GATTAACCCGCTTAATAAAGCACTTAATAAAGTTGTAATGTTAAATTCACAGAAC 120
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DB 8760 GATTAACCCGCTTAATAAAGCACTTAATAAAGTTGTAATGTTAAATTCACAGAAC 8819
QY 121 AACGATCTATATGAACCGCTATGATGTAATCAATCAAGAAATCATTCAGCAA 180
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Db 8820 AGCATCTTATAGAAAGCTGCTATGATAGTTGAAATCAAGAAATACATTTACGAA 8879
QY 181 TACAGGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 240
Db 8880 TACAGGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 8939
QY 241 AAAAGATATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 300
Db 8940 AAAAGATATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 8999
QY 301 ACACAATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 360
Db 9000 ACACAATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 9059
QY 361 TTGGCATTAATGCAATAGCTGTACGCGCTAAACCTGTGTGATTCGTTTAAATATCCG 420
Db 9060 TTGGCATTAATGCAATAGCTGTACGCGCTAAACCTGTGTGATTCGTTTAAATATCCG 9119
QY 421 GACACTCCCGCAGAGAGATTTCCCGTCAGGCGTGTGACATAGTTAATCCGGAAATACA 480
Db 9120 GACACTCCCGCAGAGAGATTTCCCGTCAGGCGTGTGACATAGTTAATCCGGAAATACA 9179
QY 481 TGACATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 540
Db 9180 TGACATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 9239
QY 541 TTGTTTGGGTTTGTAAATTTTCTACACATAGATTTCTGCAATCTGCAAAAGCATCGG 600
Db 9240 TTGTTTGGGTTTGTAAATTTTCTACACATAGATTTCTGCAATCTGCAAAAGCATCGG 9299
QY 601 GAATAACACCAATGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 660
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Db 9360 TGCTCAACAGAGATTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9419
QY 721 CACCATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 780
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Db 9540 GCTGGGTTTATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9599
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Db 9600 ATAAATGATGATTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9659
QY 961 ACTTCTGGGTTCTTCCAGTGTGTTTTCATGATGATCAGC 1001
Db 9660 ACTTCTGGGTTCTTCCAGTGTGTTTTCATGATGATCAGC 9700

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; PRIOR APPLICATION NUMBER: 60/125,974
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/104,994
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 13
; LENGTH: 11933
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
us-09-740-211-13

Query Match      100.0%; Score 1001; DB 10; Length 11933;
Best Local Similarity 100.0%; Pred. No. 4,6e-251;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGTCACATTTATTTACTATCTAGCCACAGATATATTCATGCTGTAGAAAC 60
Db 8700 AACGTCACATTTATTTACTATCTAGCCACAGATATATTCATGCTGTAGAAAC 8759
QY 61 GATAACACCGTGTAAATGAAAGACTTAAAGGTTGTAATGTTAAATTCAGAAAC 120
Db 8760 GATAACACCGTGTAAATGAAAGACTTAAAGGTTGTAATGTTAAATTCAGAAAC 8819
QY 121 ACGCATCTTATAGAAAGCTGCTATGATGATGAAATCAAGAGAAATCATTTCAGCA 180
Db 8820 ACGCATCTTATAGAAAGCTGCTATGATGATGAAATCAAGAGAAATCATTTCAGCA 8879
QY 181 TACAGGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 240
Db 8880 TACAGGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 8939
QY 241 AAAAGATATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 300
Db 8940 AAAAGATATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 8999
QY 301 ACACAATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 360
Db 9000 ACACAATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 9059
QY 361 TTGGCATTAATGCAATAGCTGTACGCGCTAAACCTGTGTGATTCGTTTAAATATCCG 420
Db 9060 TTGGCATTAATGCAATAGCTGTACGCGCTAAACCTGTGTGATTCGTTTAAATATCCG 9119
QY 421 GACACTCCCGCAGAGAGATTTCCCGTCAGGCGTGTGACATAGTTAATCCGGAAATACA 480
Db 9120 GACACTCCCGCAGAGAGATTTCCCGTCAGGCGTGTGACATAGTTAATCCGGAAATACA 9179
QY 481 TGACATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 540
Db 9180 TGACATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTCATGAAAT 9239
QY 541 TTGTTTGGGTTTGTAAATTTTCTACACATAGATTTCTGCAATCTGCAAAAGCATCGG 600
Db 9240 TTGTTTGGGTTTGTAAATTTTCTACACATAGATTTCTGCAATCTGCAAAAGCATCGG 9299
QY 601 GAATAACACCAATGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 660
Db 9300 GAATAACACCAATGAAATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9359
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Db 9360 TGCTCAACAGAGATTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9419
QY 721 CACCATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 780
Db 9420 CACCATATCTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9479
QY 781 TTGTGGCGCGCAGAGAGATTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 840
Db 9480 TTGTGGCGCGCAGAGAGATTTGTCTAAGCAGAGATTTTCGATGGGTTCAATATTC 9539

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QY	841	GCTCGGTTTTATTACTTTAAGCATTTTATATCTCGCTGCAAGCGGCTGTGTATTCGTACA	900
Db	9540	GCTCGGTTTTATTACTTTAAGCATTTTATATCTCGCTGCAAGCGGCTGTGTATTCGTACA	9599
QY	901	ATATATGTCAGATGTGCGCATATGGCGATATGGGCACTATATGTGACAGTCATTAAAT	960
Db	9600	ATATATGTCAGATGTGCGCATATGGCGATATGGGCACTATATGTGACAGTCATTAAAT	9658
QY	961	ACTTCGCGTCCCTCOAGTGTGTTTTGCATATGATGTACGC	1001
Db	9660	ACTTCGCGTCCCTCOAGTGTGTTTTGCATATGATGTACGC	9700

RESULT 3  
 US-09-738-599--6  
 ; Sequence 6, Application US/09738599  
 ; Patent No. US20020102546A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: No. US20020102546Alan, Lisa  
 ; APPLICANT: Horne, Shelley  
 ; TITLE OF INVENTION: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND METHOD

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? FILE REFERENCE: 255.0001 0122
? CURRENT APPLICATION NUMBER: US/09/738,599
? CURRENT FILING DATE: 2000-12-15
? PRIOR APPLICATION NUMBER: 09/282,352
? PRIOR FILING DATE: 1999-03-31
? PRIOR APPLICATION NUMBER: 09/023,221
? PRIOR FILING DATE: 1998-02-12
? NUMBER OF SEQ ID NOS: 26
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 6
? LENGTH: 309
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? TYPE: DNA
? ORGANISM: Bacteriophage lambda
? US-09-738-599-6

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Matches 309	Conservative	0	Mismatches	0
		Indels	0	Gaps
			0	0

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Db	1	ATCGGGGAATAACACCATGAAAAAAAATGCTACTGCTACTGCGCTGGCCCTGCTTATTACA	60
QY	656	GGATGTGCTCAACGAGCGTTTACTGTTCAAAACAAACCGGCACAGTACGACCAAGAGAA	715
Db	61	GGATGTGCTCAACGAGCGTTTACTGTTCAAAACAAACCGGCACAGTACGACCAAGAGAA	120
QY	716	ACCATCAACCATCATTTCTTGTTCTGGAATTGGCGAAGAAAACGTGCTGACGCC	775
Db	121	ACCATCAACCATCATTTCTTGTTCTGGAATTGGCGAAGAAAACGTGCTGACGACC	180
QY	776	AAAATTTTGGCGGCGCAGAAAATGTTGTATAAAACAACAACCCAGCAAAATTCGTGTAAT	835
Db	181	AAAATTTTGGCGGCGCAGAAAATGTTGTATAAAACAACAACCCAGCAAAATTCGTGTAAT	240
QY	836	GGATGCTCGGTTTTATTACTTATAGCATTTATCTCCGCTGGAAGCGCTGTGTATTGC	895
Db	241	GGATGCTCGGTTTTATTACTTATAGCATTTATATCTCCGCTGGAAGCGCTGTGTATTGC	300
QY	896	TCACATAA 904	
Db	301	TCACATAA 309	

RESULT 4  
US-09-738-599-1  
; Sequence 1, Application US/09738599  
; Patent No. US20020102546A1  
; GENERAL INFORMATION:  
; APPLICANT: NO. US20020102546A1an, Lisa  
; APPLICANT: Horne, Shelley

```

? TITLE OF INVENTION: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND MET
? FILE REFERENCE: 255,0001 0122
? CURRENT APPLICATION NUMBER: US/09/738,599
? CURRENT FILING DATE: 2000-12-15
? PRIOR APPLICATION NUMBER: 09/282,352
? PRIOR FILING DATE: 1999-03-31
? PRIOR APPLICATION NUMBER: 09/023,221
? PRIOR FILING DATE: 1998-02-12
? NUMBER OF SEQ ID NOS: 26
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 1
? LENGTH: 760
? TYPE: DNA
? ORGANISM: Escherichia coli
US-09-738-599-1

Query Match          29.9%;   Score 298.8;   DB 10;   Length 760;
Best Local Similarity 83.2%;   Pred. NO. 1.4e+68;
Matches 381;   Conservative 0;   Mismatches 62;   Indels 15;   Gaps 3;

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ORGANISM: Escherichia coli  
US-09-738-599-1

Query Match	29.9%;	Score 298.8;	DB 10;	Length 760;
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Best Local Similarity 83.2%; Pred. No. 1.4e-68;  
Matches 381; Conservative 0; Mismatches 62; Indels 15; Gaps 3

0Y	544	TTTAGGGGTTTGGTTTAAATTTTCTACACATTCAGTCTTGCGAAGCTTCAAAAAAGCATCGGGAA	603
Db	243	TTTAGGTATCGGTTTAATTAATTATATACATCAGTATGTTCCCGTTTATAACA--ATCGAGGA	299
0Y	604	TAAACACATGAAAAAATGCTACTCGCTACTGGCGCTGCGCCCTGCTTAATACAGAGATGTC	663
Db	300	TAAATAGATGAAAAAATGTTATTCTTGTGCGCTCTGGCAATCCTTAATACAGAGATGTC	359
0Y	664	TCAACAGACGTTTACTGTCTTCAAAACAACCGGACAGTAGTAGCACCAAGGAAACCATCAC	723
Db	360	TCAACAACAAGTTTACTGTGTGGAAACAACCGACGAGTAGTAACCAAGGAAACCATCAC	419
0Y	724	CCATCATTTCTTTCGTTCTGCAATGGGCGCAGAAAGAAATCTGTGATGTCACCCAAATTTAG	783
Db	420	TCATCATTTCTTTCGTTCTGCGGAATTTGACAAGAAAGAAATCTGTGATGTCACCCAAATTTAG	479
0Y	784	TGGGGGGCCACAAAATGTTGTTAAACAGAAACCACAGCAATGTGTAATGATTTGCT	843
Db	480	TGGCGGTGCABAAATGTTGTTAAACAGAAACCTCACCAAACTGTGTAATGATTTGCT	539
0Y	844	CGGTTTATTAATCTTATGAGCAATTTAATCTCCGCTGGAAAGCGCGTGTGATTTGCTCACAATA	903
Db	540	CGGTTTATTAATCTTATGAGCAATTTAATCTCCGCTGGAAAGCGCGGTGATTTGCTCACAATA	599
0Y	904	ATTGATGAGTTGCCCATCGGATATGGGCAACTCTTATGCACTGCTCATTAATAATACT	963
Db	600	GTTG-----CCATGCGATATATGGGAGCTC-ATGCGAATGTTCAATTAATAATACT	647
0Y	964	TCTGGGTTCTTCCAGTGTGTTTGTGCATAGATCAGC 1001	
Db	648	TCTGGGTTCTTCCAGTGTGTTTGTGCATAGATCAGC 685	

RESULT 5  
MS-09-73

Sequence 21, Application US/09738599  
Patent No. US20020102546A1

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;
; GENERAL INFORMATION:
; APPLICANT: NO. US20020102546A1an, Lisa

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; APPLICANT: Horne, Shelley  
 ; TITLE OF INVENTION: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND MET

FILE REFERENCE: 255.0001 0122  
CURRENT APPLICATION NUMBER: US/09/738,599  
CURRENT FILING DATE: 2000-12-15

; CURRENT FILING DATE: 2000-12-13  
 ; PRIOR APPLICATION NUMBER: 09/282,352  
 ; PRIOR FILING DATE: 1999-03-31

PRIOR APPLICATION NUMBER: 09/023,221  
PRIOR FILING DATE: 1998-02-12

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; NUMBER OF SEQ ID NOS: 26
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; SOFTWARE: PatentIn version 3.0.0
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; SEQ ID NO 21
; LENGTH: 378
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TYPE: DNA



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FILE REFERENCE: LEX-0101-USA
CURRENT APPLICATION NUMBER: US/09/728,446
CURRENT FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/168,270
PRIOR FILING DATE: 1999-12-01
NUMBER OF SEQ ID NOS: 1461
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 280
LENGTH: 627
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)...(627)
OTHER INFORMATION: n = A,T,C or G
US-09-728-446-280

Query Match
Best Local Similarity 52.3%; Score 40.8; DB 10; Length 627;
Matches 90; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 759 AACTCTGATGACGCCAAATTTGTGGCGGCGAGAAAATGTTTAAACAGAAACC 818
DB 256 AATATTTCTTAAGACACATGTGAAGATACAGAGATGAAGCGTTATTAATAGACC 315
QY 819 AGCAACATTCGTAATGATTCGCTGTTTATTACTTTAGGCATTTACTCGGCTGG 878
DB 316 AACAAACATGGAGCTGACGCGCTGCTTGGCTCCACCTCTTATTTCTGGCTGA 375
QY 879 AACGCGGTGTGTTGCTCACAATAATTTGCATGATGGCCATCGGAGATG 930
DB 376 CAACACATGTGTCGCTTACGTTGGCTGGCGAGTTCACACTTGTGCTGATG 427

RESULT 9
US-10-108-605-118
; Sequence 118, Application US/10108605
; Patent No. US20020160934A1
; GENERAL INFORMATION:
; APPLICANT: Broadus, Julie
; APPLICANT: Stam, Lynn
; APPLICANT: Bachmann, Jane
; APPLICANT: Kamdar, Kim
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
; FILE REFERENCE: 31133B
; CURRENT APPLICATION NUMBER: US/10/108,605
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 09/761,142
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/176,418
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO: 118
; LENGTH: 3758
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-10-108-605-118

Query Match
Best Local Similarity 4.1%; Score 40.8; DB 9; Length 3758;
Matches 102; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 121 ACCGATTTATAGAAAGCTCTATGATGATGAATTCAGACAAATTCATTCAGCAA 180
DB 2657 AGCGCTCTTCAATTTCTAGGATGTAGCGTGCTTTTGTATTAATAATTTCTTAAA 2716
QY 181 TACAGGAAATCTTGTCTAAAGAGATTTTCGATGGCTTACAAATATCATGAACAT 240
DB 2717 TACTTATCAAAAAGTAGATGATGATGATGATGATGATGATGATGATGATGATGAT 2776
QY 241 AAAAGATATTACTTACCTTTGATTAATTCATTACTTACTAGAGACATTCAGAACAT 300
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DB 2777 TTCGAATATGTCCTACTCTCGAATAATTTAGTAGTATATAAATAATCTATATACT 2836
QY 301 ACACAAATCTTCCACGCTAATC 324
DB 2837 TTGCAATTTTTTTTATTTAAAC 2860

RESULT 10
US-09-960-352-7535
; Sequence 7535, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mahalingam, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO: 7535
; LENGTH: 361
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 32-LIB34-056-Q1-E1-H7
US-09-960-352-7535

Query Match
Best Local Similarity 3.8%; Score 38.4; DB 10; Length 361;
Matches 87; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

QY 143 ATGATAGCTTGAATCAGAGAAATTCACATTTTCAGCATACAGGAAATCTGCTAAG 202
DB 86 ATGACCGTGAAATGCCACCAAAATTTCTCATCGGCAAGAGGTACATTCAGGTAAAT 145
QY 203 CAGGAGTTTCCGATGGGTTACAAATATCATGAACATMAAAGATATTACTATACCTTTG 262
DB 146 TGGAGAGTTTGTTCGAGGAAACCTTGAGAGAAATGTAAGAAATAATGTAATCTTTG 205
QY 263 ATAATTCATTACTATTCTAGAGACATTCGAGACATCAGACATCAATCT 310
DB 206 AAGAAGCAGACAGCAAGTTTGTGAACACTGAGAAAACATGCAATTTT 253

RESULT 11
US-09-969-373-413/C
; Sequence 413, Application US/09969373
; Patent No. US2002013852A1
; GENERAL INFORMATION:
; APPLICANT: Effertz, Roger J.
; APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 4593.
; SEQ ID NO: 413
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Glycine max
US-09-969-373-413

Query Match
Best Local Similarity 3.6%; Score 35.8; DB 10; Length 302;
Matches 55.1%; Pred. No. 3.3;
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